

State of Hawai'i
IMT

Transforming Government..

*Through Business and Information Technology
(IT)/Information Resource Management (IRM)*

Association of IT Professionals (AITP)
March 28, 2012

Sanjeev “Sonny” Bhagowalia
Chief Information Officer

Dilbert



Source: Scott Adams

Future World...In the Clouds?



*“It was much nicer before people started storing
all their personal information in the cloud.”*

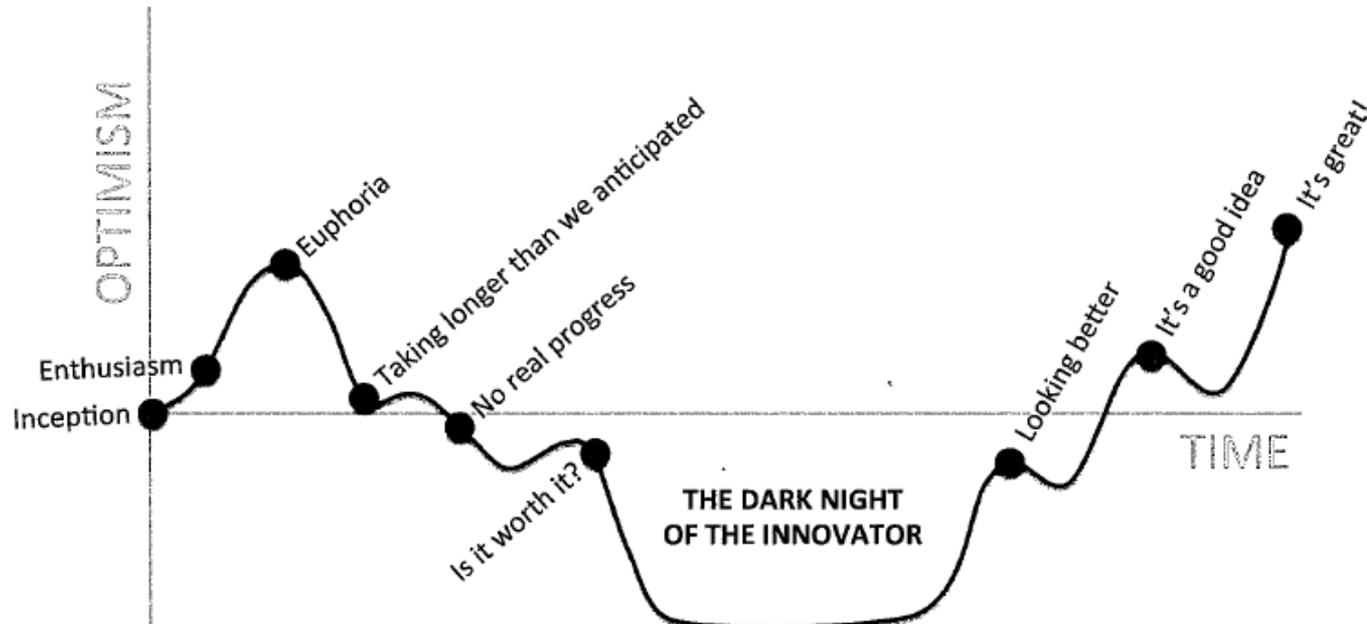
Source: New Yorker Magazine

Transformation and Change isn't Easy

The Path of Innovation

Between the idea and the reality falls the shadow

- T.S. Eliot



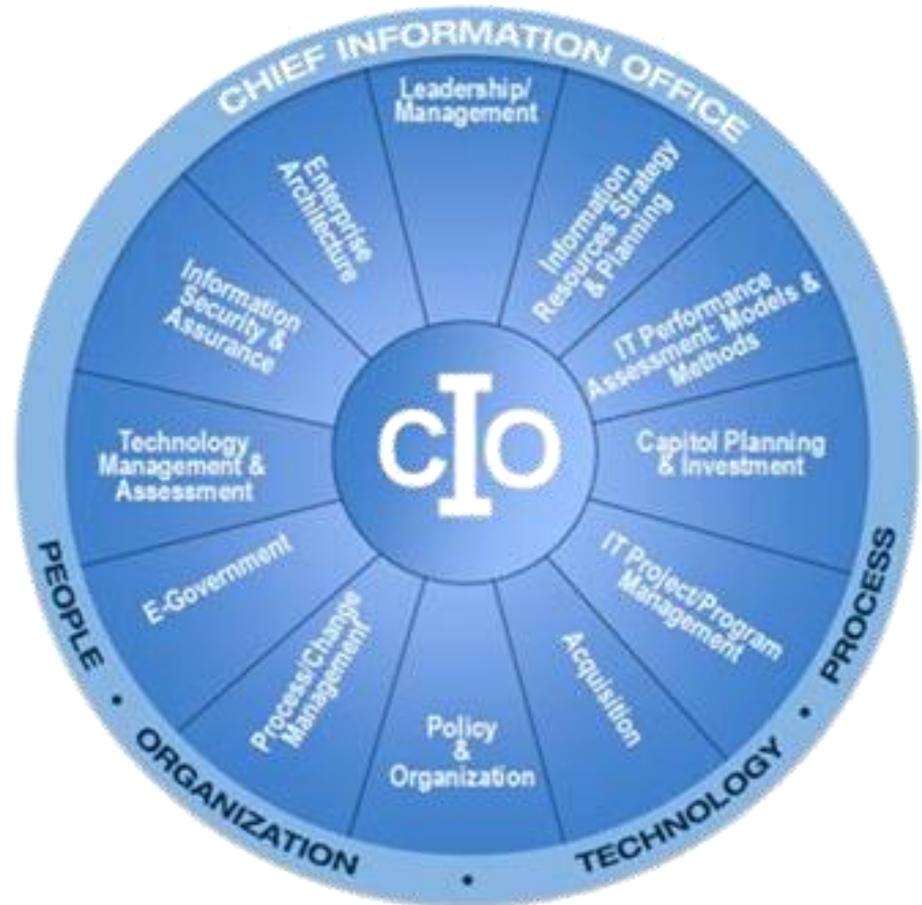
Source: Jeff Mohr, HCF

Organizational revival depends on the ability to adapt to environmental change

- ▶ “We must become the change we want to see in the world” – Mahatma Gandhi
- ▶ “The journey of a thousand miles begins with a single step” – Lao Tzu
- ▶ “Automating a mess yields an automated mess” – Reengineering the Corporation, by Michael Hammer & James Champy, 1993
- ▶ “Information technology can expect to improve business process about 10%. However, redesigning a process and then adding technology can improve the process up to 90%” – Bill Gates, Business @ the Speed of Thought, 1999
- ▶ “The first rule of any technology used in a business is that automation applied to an efficient operation will magnify the efficiency. The second is that automation applied to an inefficient operation will magnify the inefficiency” – Bill Gates
- ▶ “Not everything that can be counted counts, and not everything that counts can be counted” – Albert Einstein (attributed)
- ▶ “What gets measured gets done, what gets measured and fed back gets done well, what gets rewarded gets repeated” – John E. Jones
- ▶ “The Problem is never how to get new innovative thoughts into your mind, but how to get old ones out” – Dee Hock, Founder and Former CEO of Visa
- ▶ “Innovation distinguishes between a leader and a follower” – Steve Jobs, Apple

CIO Provides IT/IRM Leadership

- ▶ Develop, implement, and manage IT/IRM governance
- ▶ Establish and enforce policies and standards
- ▶ Create architectural requirements
- ▶ Provide statewide IT/IRM investment oversight



Source: <http://www.ndu.edu>

Source: <http://www.cio.gov>

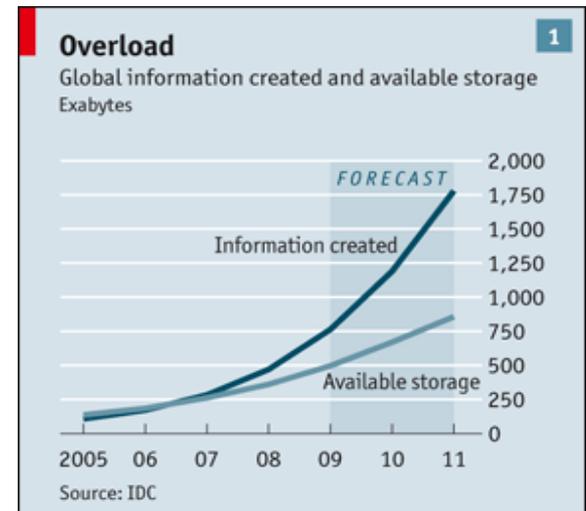
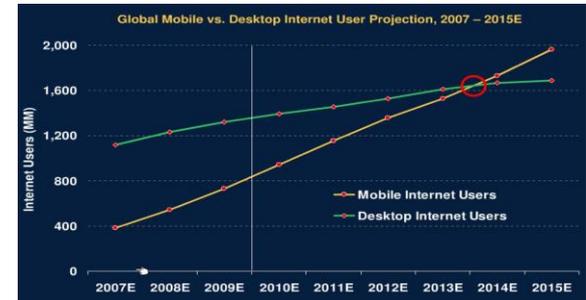
Change is Coming (Like it or Not...)



6 bold tech predictions: Fact or fantasy? FCW (December 8, 2010)

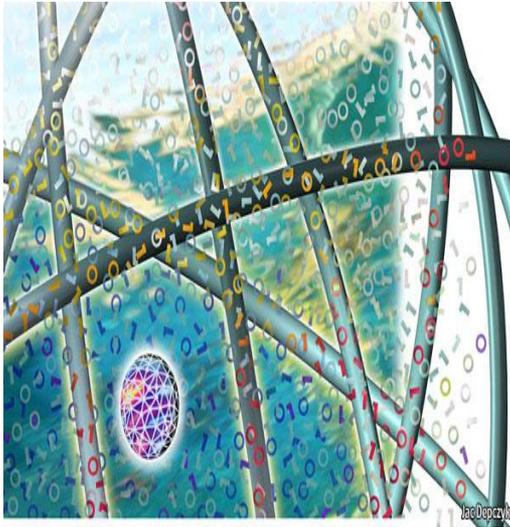
1. 20% of businesses will own no IT assets by 2012 (Gartner)
2. 75% of Stand-Alone IT Departments will disappear by 2015 (Corporate Executive Board)
3. One trillion devices will be connected to the Internet by 2013 (Cisco) – Current = 35B
4. The government can save \$1 trillion in 10 years by harnessing certain proven technologies (Technology CEO Council)
5. 25% of personal computing devices sold will be tablets by 2015 (Forrester Research)
6. Data will grow by 800% in the next five years with 80% Unstructured Text/Media (Gartner)

Mobile will be bigger than desktop internet in 5 years
-- Mary Meeker, Morgan Stanley, April 2010



Volume of digital information increases tenfold every five years & the data is replicated many times over!

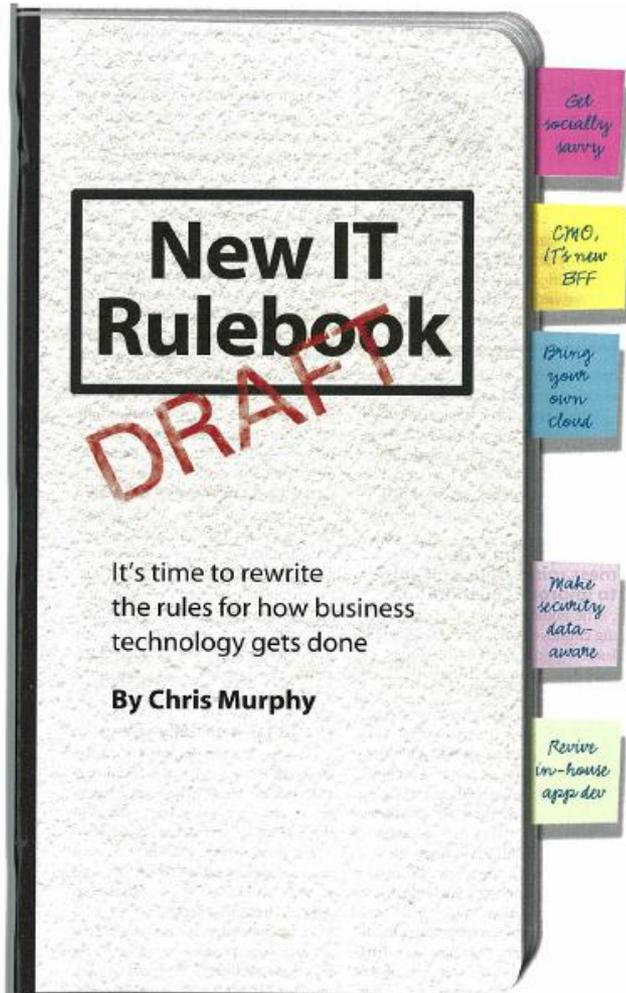
Context: Maximum sharing and flow of information and knowledge



- YouTube is now **second largest search engine** in the world
- 1.5 million pieces of content shared **daily** on Facebook
- On-line newspaper readers are **up 30%**
- 250 million visitors **each month** to Myspace, YouTube, and Facebook (*none were around 6 years ago*)
- **Mobile devices** will be world's primary connection tool to the Internet in **2020**

As big an issue *outside* your organization as *within* it

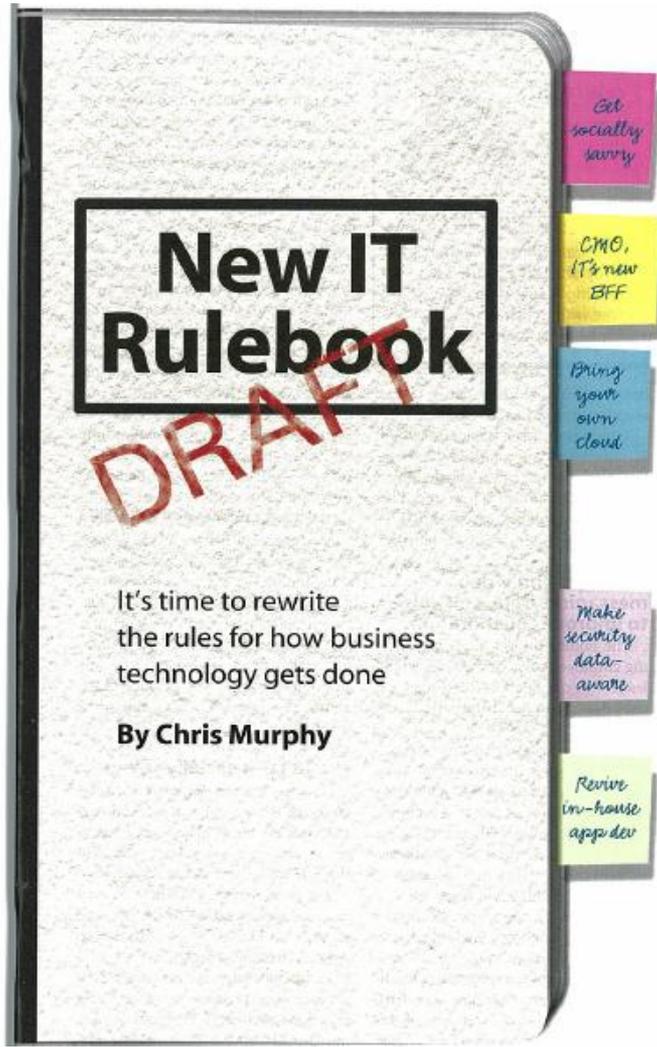
New IT Rulebook – Draft



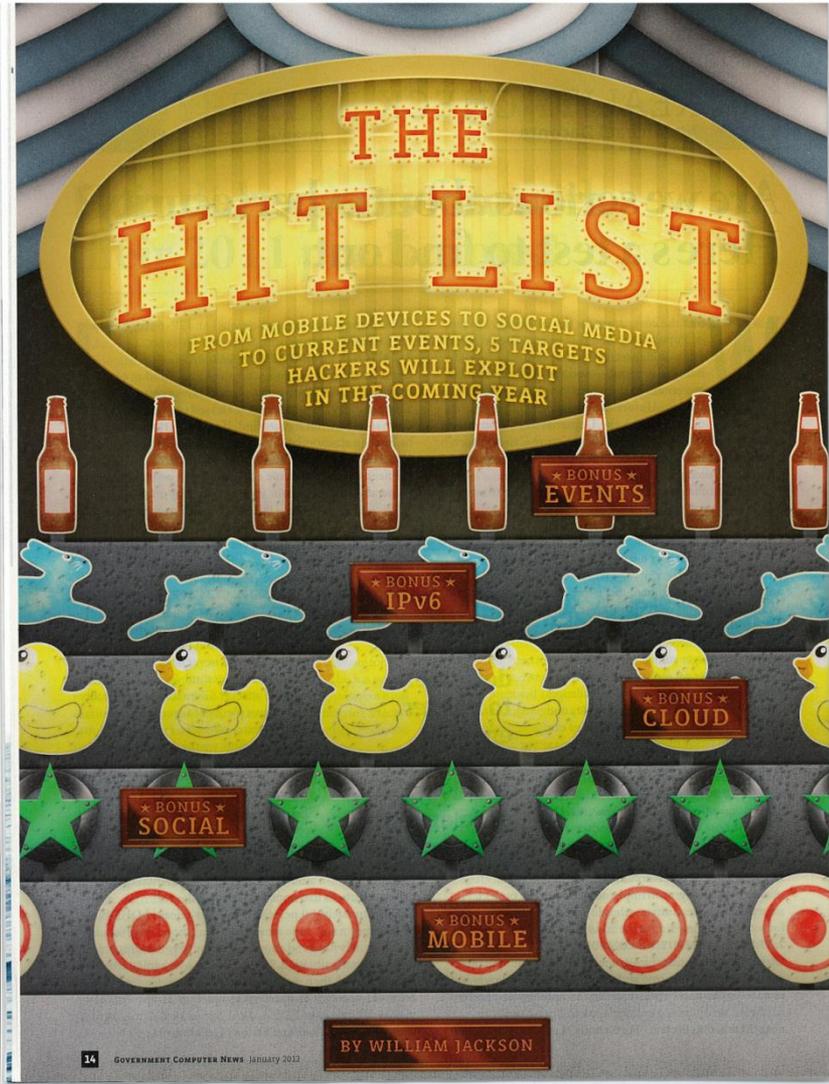
1. Really know who buys your product
2. Deliver IT projects in weeks or months, not years
3. Plan to adjust, don't plan to be perfect
4. Create analysis tools not stale reports
5. Evolve security to be data aware
6. Get ready for 'bring your own cloud'
7. Build a cloud-friendly IT shop
8. Think of 'data-center' as a result, not a building

Source: InformationWeek.com/1327/rulebook

New IT Rulebook – Draft



9. Keep skills in touch with the times
10. Revive in-house custom development
11. Use mobile to change the customer experience
12. Make the CMO IT's new BFF
13. Get socially savvy
14. Blend video, messaging, data, and voice to improve collaboration
15. Treat tablets as workhorses, not show ponies



- Personal Devices
- Social Networking
- The Cloud
- IPV6
- Current Events

Source: “The Hit List – From Mobile Devices to Social Media, 5 Targets hackers will exploit in 2012, Government Computer News, January 2012

Trends We Need to Watch...

1. Consumerization & The Tablet
2. The Infinite Data Center
3. IT Consumption
4. Context Awareness
5. Hybrid Clouds
6. Fabric Data Centers
7. IT Complexity
8. Patterns and Analytics
9. The Virtual Enterprise
10. Social Networking

Gartner[®]



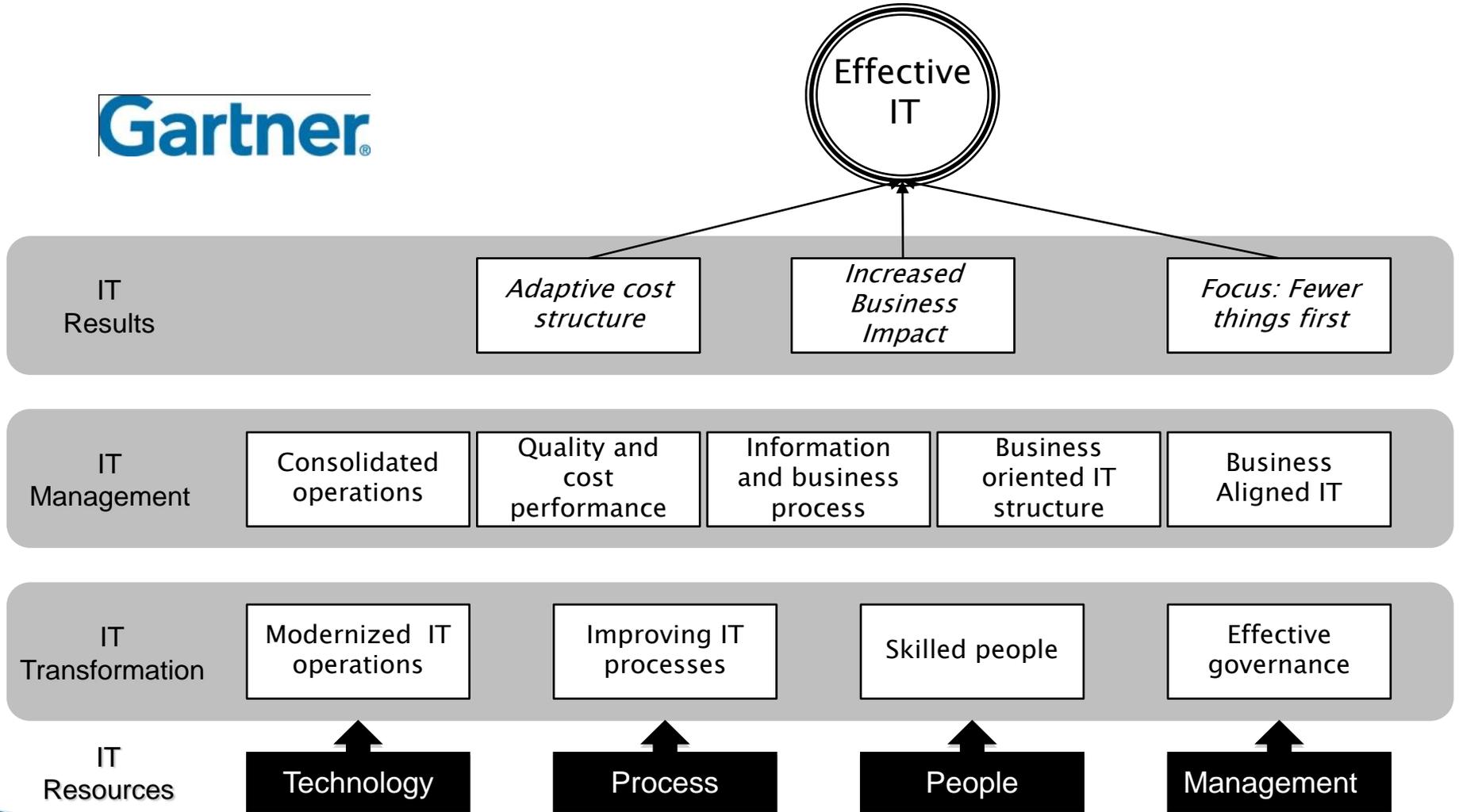
Source: Top 10 Trends and How They Will Impact Data Centers and IT, David Cappuccio, Vice President, Chief of Research, Gartner

New Updates from Gartner – Access to Anything, Anywhere, Any Time

- 1) **30 billion** pieces of content were added to Facebook this past month.
- 2) Worldwide IP Traffic will **quadruple** by 2015.
- 3) Over **107 trillion** emails were sent this year (89% of which were spam).
- 4) **Today's employees can access** 
 - ▶ Over 1 Billion Web pages (and growing)
 - ▶ 350,000 iPhone and Over 100,000 Android Apps
 - ▶ 10,500 Radio Stations, 5,500 magazines, 300+ TV Networks

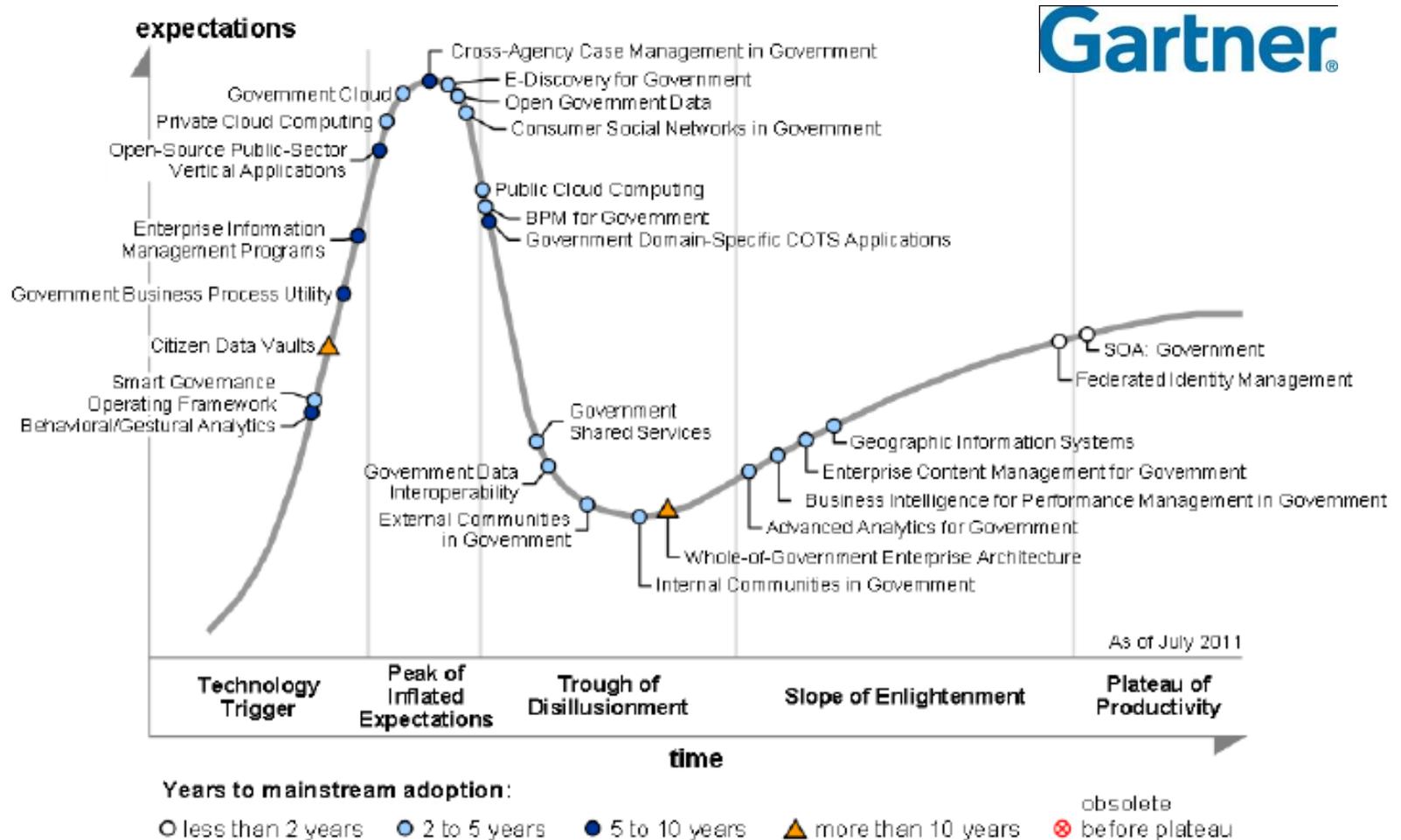
Source: Top 10 Trends and How They Will Impact Data Centers and IT, David Cappuccio, Vice President, Chief of Research

CIOs build effective IT/IRM through transforming resources and management practices



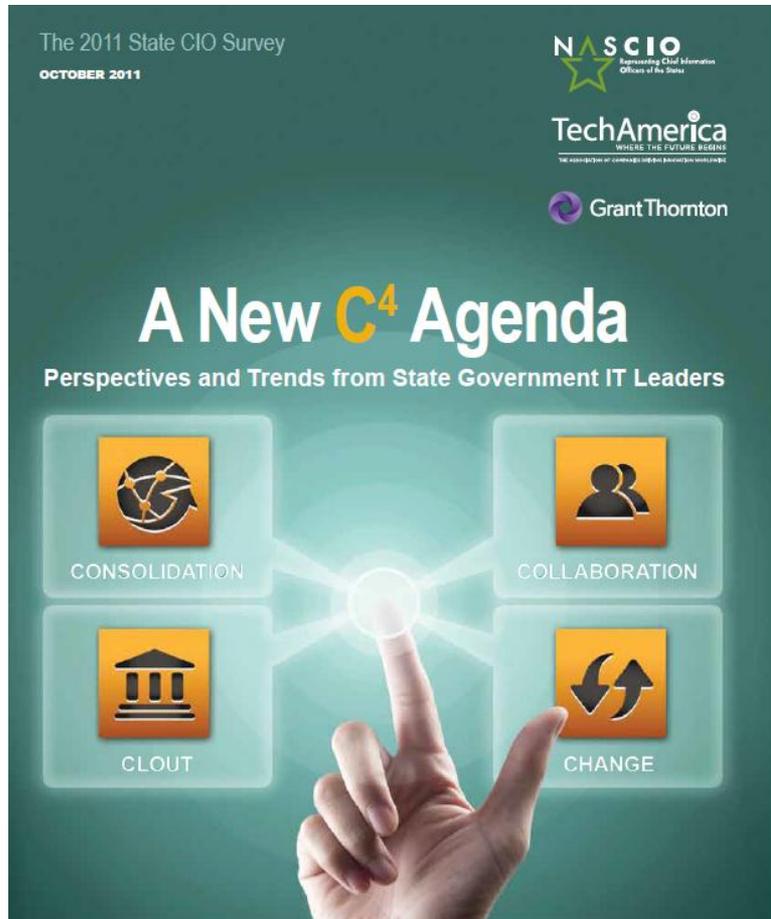
Hype Cycle for Government Transformation, 2011

Figure 1. Hype Cycle for Government Transformation, 2011



Source: Gartner (July 2011)

NASCIO 2011 Survey*



*<http://www.nascio.org/publications/>

39 Questions

- Roles & Governance
- Legislative Affairs & Advocacy
- Financial Management, Funding and Budget
- Collaboration
- Consolidation and Shared Services
- Cloud Computing
- Sourcing Strategies and IT Workforce
- Health Care
- Business Intelligence and Business Analysis
- Mobility

Conclusions

State CIOs are changing

- How they provide services
- The Source and diversity of their revenue streams
- Their relationship with the legislature
- How mobile devices and apps connect citizens to their government

NASCIO Conference (2011)

NASCIO Top Ten Strategy Priorities (2012)

1. Consolidation / Optimization
2. Budget and Cost Control
3. Governance
4. Health Care
5. Cloud Computing
6. Security
7. Broadband and Connectivity
8. Shared Services
9. Portal
10. Mobile Service/Mobility

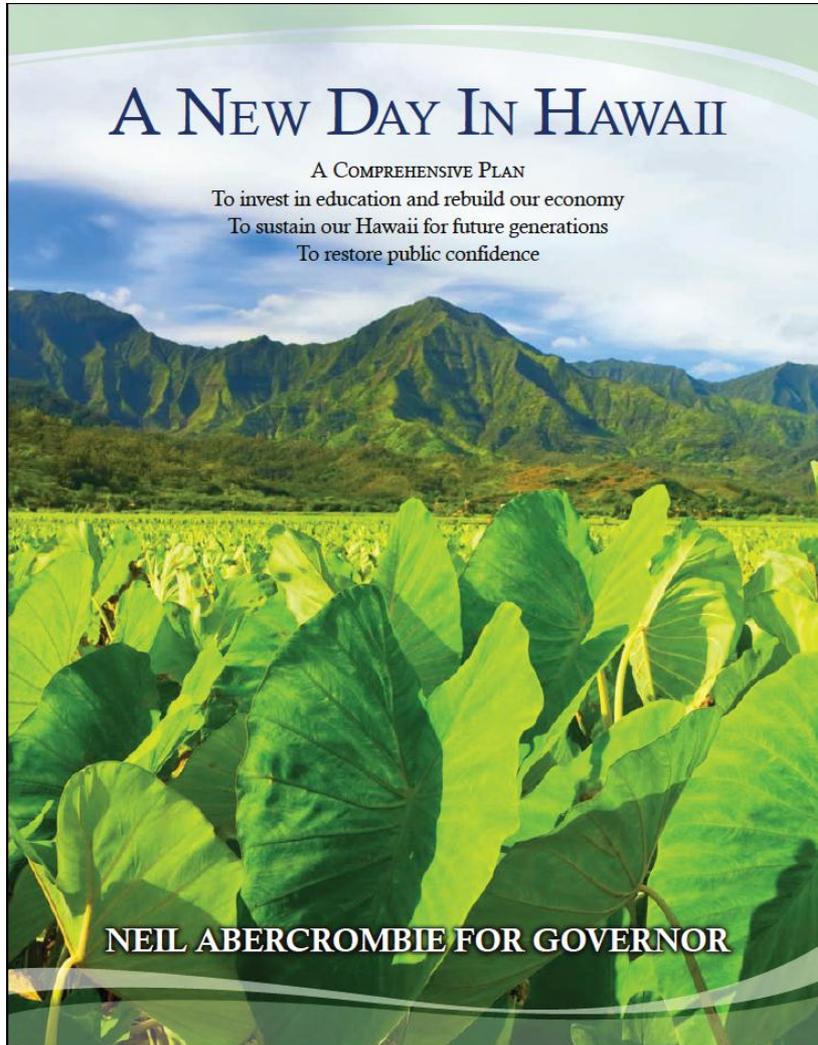
NASCIO Top Ten Technology Priorities (2012)

1. Virtualization
2. Legacy application modernization/ renovation
3. Cloud computing
4. Mobile workforce technologies
5. Networking
6. Enterprise Resource Management (ERP)
7. Identity and access management
8. Business Intelligence (BI) and Business Analytics (BA) applications
9. Document/Content/Records/E-mail management
10. Public Safety Radio Network



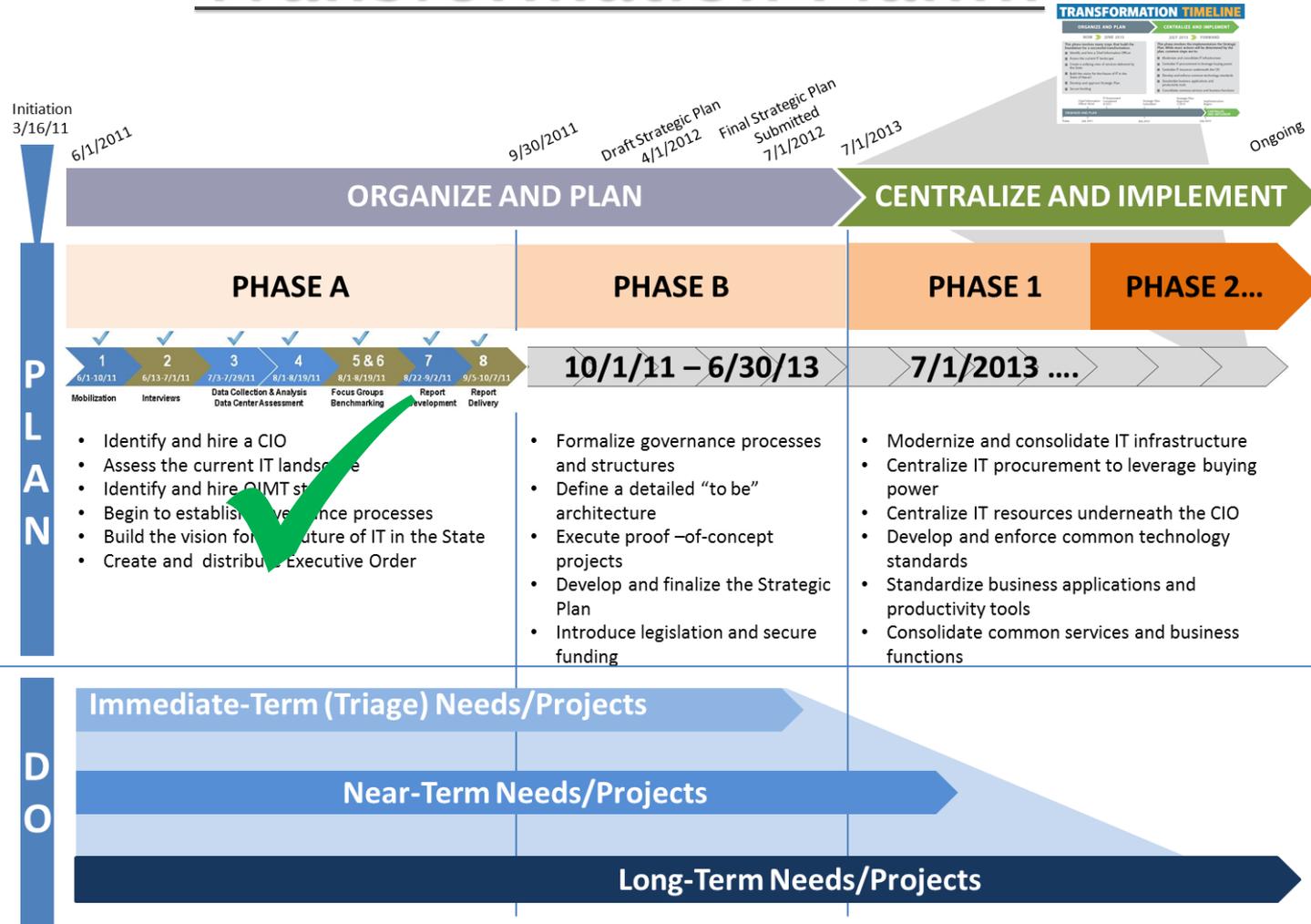
Source: <http://www.nascio.org>

The New Day Vision



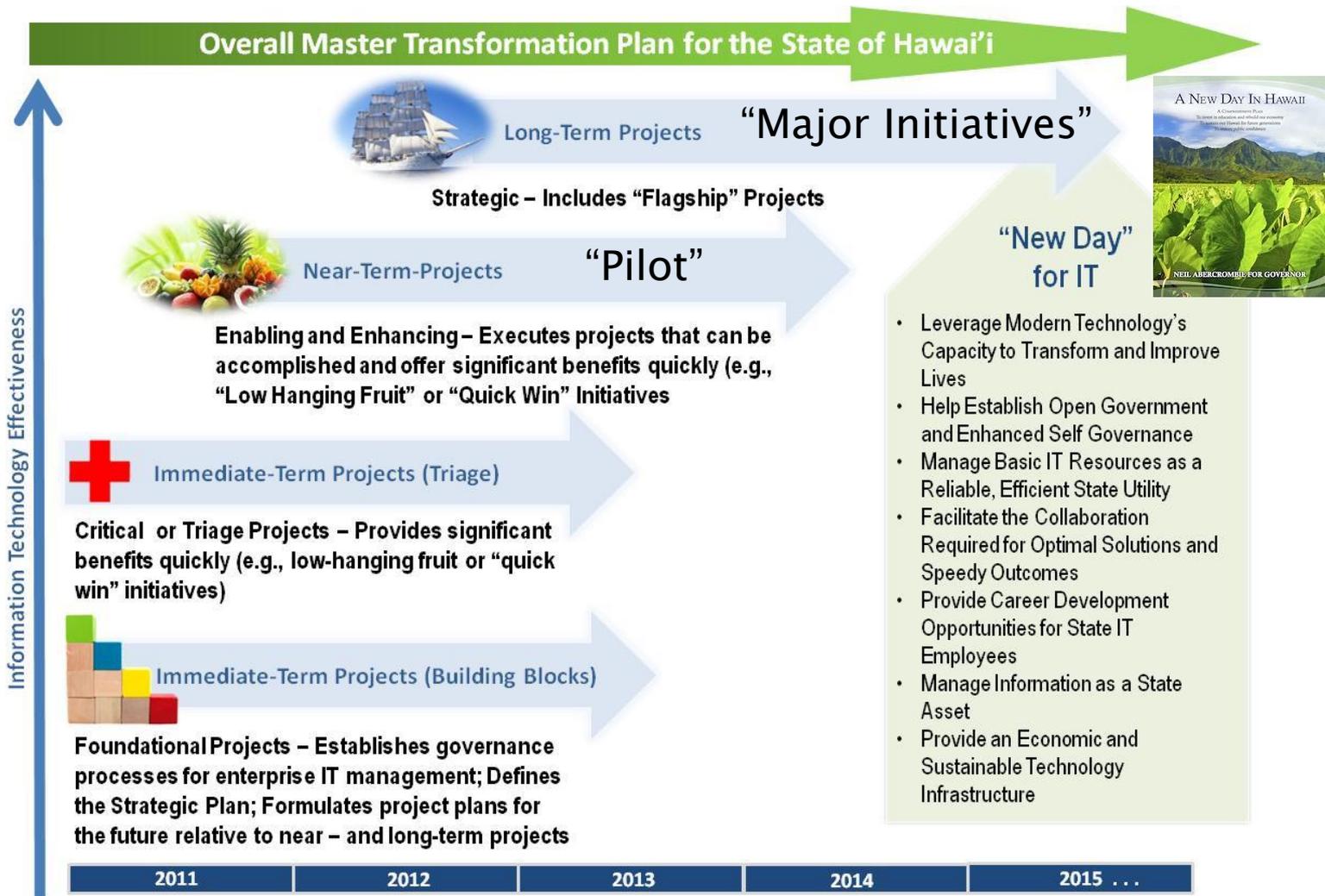
- **GROWING A SUSTAINABLE ECONOMY**
 - New Day Work Projects
 - Renewable Energy
 - Food Security
 - Innovation Economy
 - Improvements on Public Lands
 - Environmental Stewardship
 - Culture, Arts, Creative Industries
- **INVESTING IN PEOPLE**
 - Early Childhood
 - Education and Workforce Development
 - Healthcare Transformation
 - Safety Net, Homelessness, Public Safety
 - Housing
- **TRANSFORMING GOVERNMENT**
 - Information Technology
 - Fiscal Management
 - Operations Management
 - Customer Service
 - Civil Defense and Security

An Integrated, Multi-Year Transformation Plan...



A Seven-Phase, Eleven-Year Plan with delivery along the way

...With Wins Along the Way to a “New Day”



Phased Approach to Achieving IT Excellence

Incremental improvements and delivery

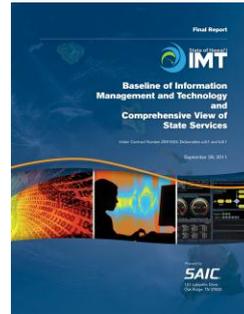
Baseline Assessment – Phase A

- ▶ Completed over 4 months
- ▶ Interviewed over 200 individuals from departments, offices and attached agencies
- ▶ Cataloged more than 1,500 pages of notes and background material

*Major first step of a long journey
completed*

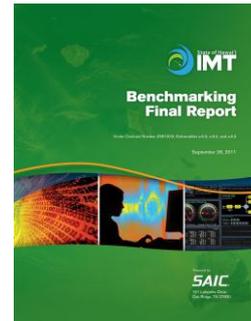
Phase A – Major Deliverables

1) Baseline Report

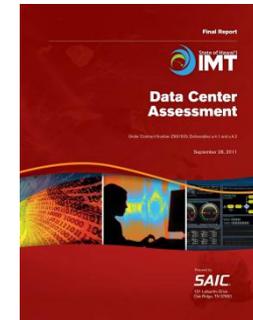


Items 1–3 released in an open, transparent manner to the public

2) Benchmarking Report



3) Data Center Assessment

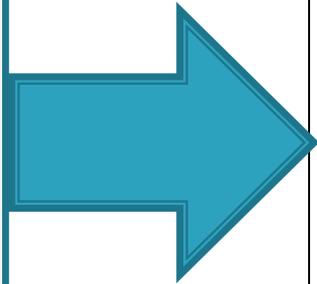
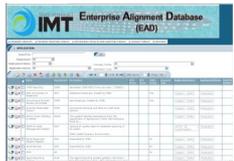
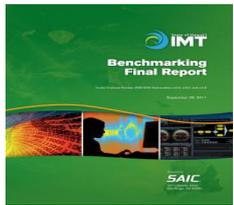


4) Enterprise Alignment Database (EAD) Tool

The screenshot shows a web-based interface for the Enterprise Alignment Database (EAD). It features a search bar, a table with multiple columns and rows of data, and a sidebar with navigation options. The interface is titled 'IMT Enterprise Alignment Database (EAD)'.

High quality work products delivered on time and within budget – Phase A complete!

The Study Found: Top 10 Areas of Opportunity

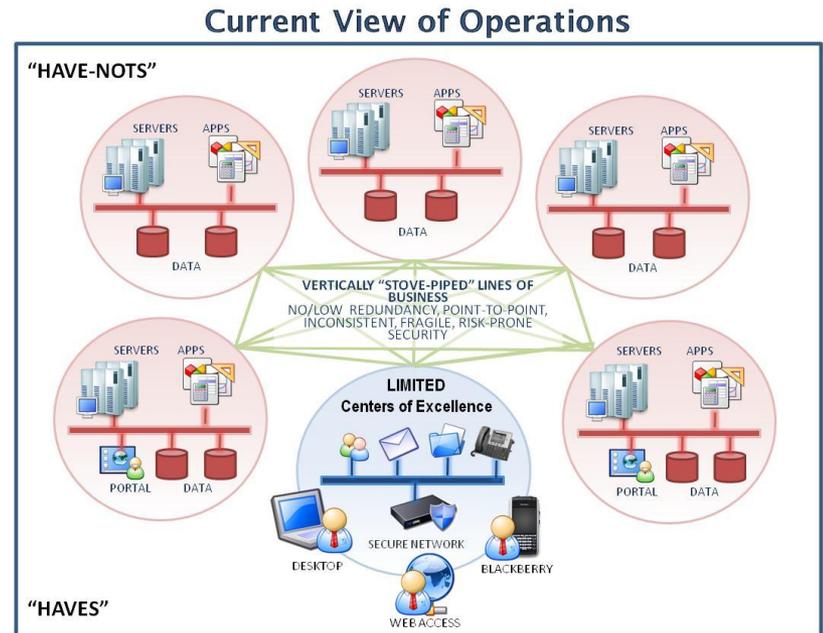


1. Governance
2. Disaster Recovery (DR) and Continuity of Operations (COOP)
3. IT Procurement
4. Security and Privacy
5. Open Government and Social Media
6. Collaboration and Work Flow
7. Enterprise Applications
8. Enterprise Infrastructure
9. Wireless / Mobile / Radio
10. Business Process Re-Engineering

*We are focusing on these
Top 10 opportunities...*

Phase A – Findings

- ▶ 18 Departments & University of Hawaii
- ▶ \$157.5 million IT/IRM budget
- ▶ 746 IT/IRM staff
- ▶ Over 500 applications
- ▶ 200 lines of business
- ▶ High duplication of effort
- ▶ Wide funding disparities
- ▶ Some focused areas of excellence



Many disconnected silos of effort

Widespread Symptoms of IT/IRM Management Challenges

- ▶ Inefficient manual interfaces
- ▶ Minimal enterprise integration and sharing
- ▶ Narrowly-focused federally funded solutions
- ▶ Limited use of IT/IRM to enable mission service delivery
- ▶ Aging legacy systems conditions (20+ years old)
- ▶ Proliferation of any and every type of IT/IRM product and service
- ▶ Little business process coordination or information sharing across departments (and programs)

A clear need for transformation!

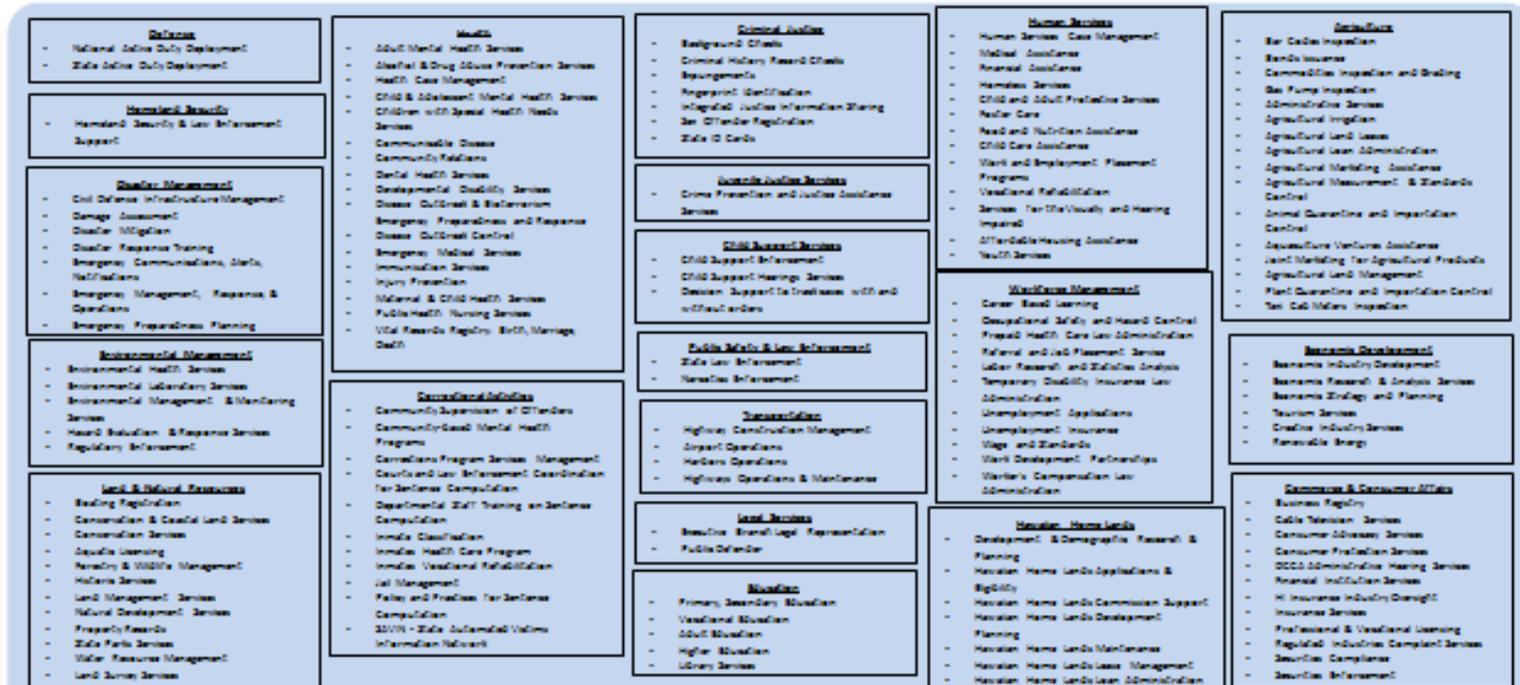
Symptoms are Driven by Three Root Causes

- 1) No coordinating authority for managing information resources and technology across the State
- 2) Lack of cross-cutting business process re-engineering (BPR)
- 3) Deep cuts in resources and budget reductions in the State over the past decade

Major issues exist – but all are solvable!

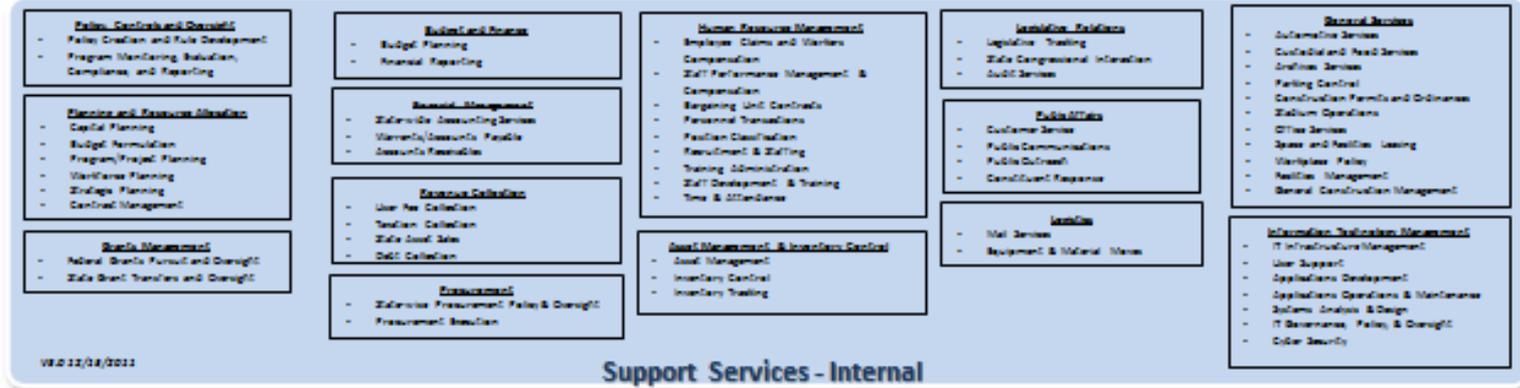
State of Hawaii Business Model

20 Core LOBs
~150 Services



Core State Services (Services for Citizens)

14 Support LOBs
~50 Services



Support Services - Internal

34 Total LOBs
~200 Services

Services to Citizens



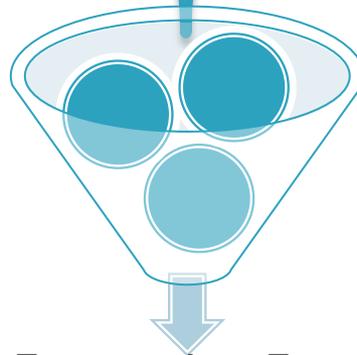
Enabling Services



20 Key Recommendations

| | | |
|--------------------------|--------------------------------|------------------------|
| Business Reference Model | Data Sharing and Collaboration | Organizational Change |
| Manual Interfaces | Bargaining Unit Leadership | ICSD |
| Risk Assessments | Service Management Model | Applications Portfolio |
| Performance Measures | Application Integration | Data Architecture |
| Funding for IT | Platforms and Technologies | IT Costs |
| Agency Model | | IT Skills |

20



All recommendations are important but must be sequenced according to resources and readiness

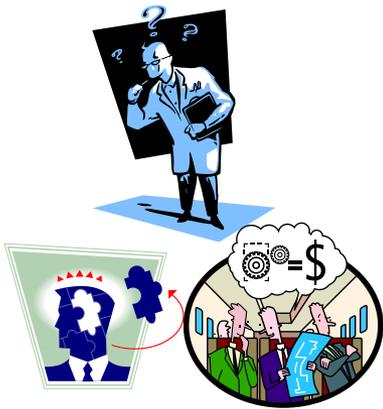
4

Enterprise Focus
Governance Strategies
Business Process Re-Engineering
Technical Foundation

We are starting to implement the 4 basic foundational recommendations now!

Started on Four Key Recommendations

1



*Enterprise
Focus for
Projects*

2



*Establish
Enterprise
Governance*

3



*Re-engineer
Business
Processes*

4

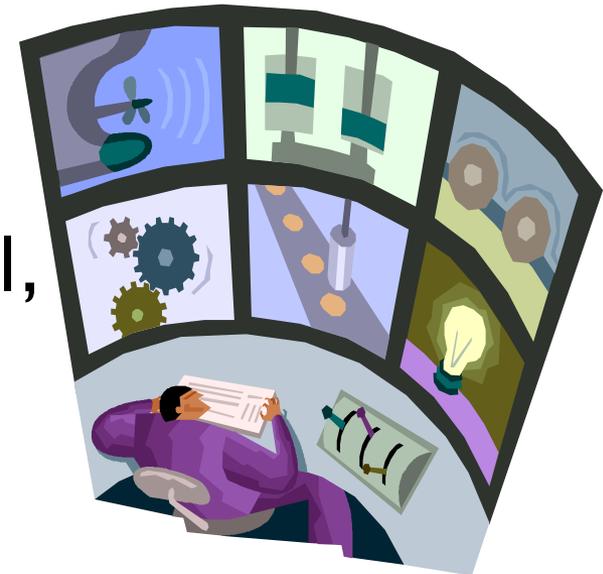


*Strengthen
Technical
Infrastructure*

Focus on Cross-Cutting/Enterprise Solutions

Re-engineer processes that are:

- ▶ Performed by multiple Departments
- ▶ Paper-driven
- ▶ Shareable across a foundational, enterprise IT infrastructure
- ▶ Extraordinarily labor-intensive and therefore drive users to create one-off solutions



Don't just automate inefficient processes...re-engineer them!

Prioritized BPR Process Areas

| Candidates for Cross-Cutting Enterprise Solutions | Immediate-Term | Near-Term | Long-Term |
|--|----------------|-----------|-----------|
| Financial Management Initiatives | ✓ | | |
| Procurement and IT Acquisitions | ✓ | | |
| Program/Project Management Process Definition | ✓ | | |
| Time and Attendance Reporting | ✓ | | |
| Check Printing and Processing | ✓ | | |
| Legislative Bill Tracking | ✓ | | |
| Constituent Response Tracking | ✓ | | |
| Data Entry | ✓ | | |
| Enterprise Email Solution | ✓ | | |
| Inventory/Asset Management | | ✓ | |
| Document Tracking and Records Management | | ✓ | |
| Neighbor Island Solution | | ✓ | |
| PPACA Implementation | | ✓ | |
| Longitudinal Data Enterprise Solution | | ✓ | |
| Federal Grant Application and Lifecycle Management | | | ✓ |
| GIS Enterprise Solution | | | ✓ |

Lay the groundwork for efficient delivery of services statewide

The Way Forward



A Vision for a Better Future

Mission

To assist agencies in the effective, efficient and convenient delivery of programs and services to the public through business transformation and information technology modernization.

Vision

A State where:

- ▶ the public engages with an open and transparent government;
- ▶ State employees, citizens and businesses have convenient and secure access to reliable information;
- ▶ government processes are streamlined, integrated and implemented to meet the public's service expectations;
- ▶ information technology and information capabilities align and support business needs, strategies, and outcomes;
- ▶ innovation and continuous improvement are fostered.



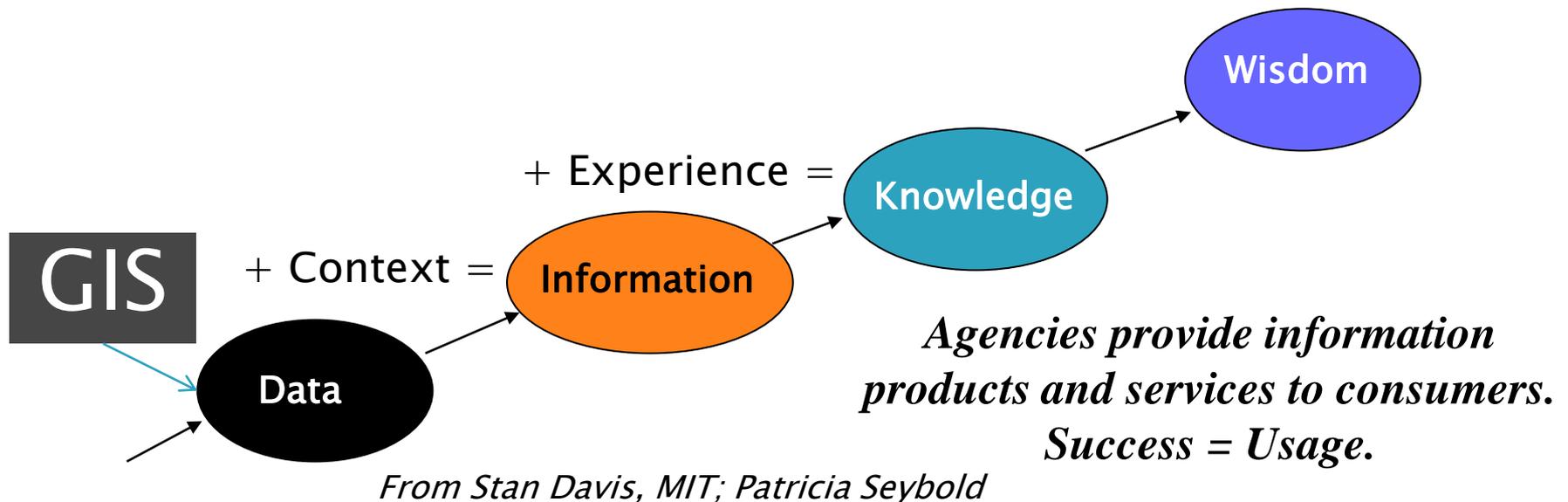
Benefits of the Transformation

The transformation will benefit:

- ▶ **State citizens** through improved delivery of services and programs (e.g. going “online” instead of “waiting in line”); a more transparent and responsive government; and increased access to information and data.
- ▶ **State employees** with streamlined workflow processes allowing more focus on serving customers and access to a wider range of new technologies to support departmental mission, programs and services.
- ▶ **State government** through efficiently aligned services; reduced costs and unnecessary redundancies; increased reliability and security; and improved outcomes and accountability.

A Value Proposition for Hawaii

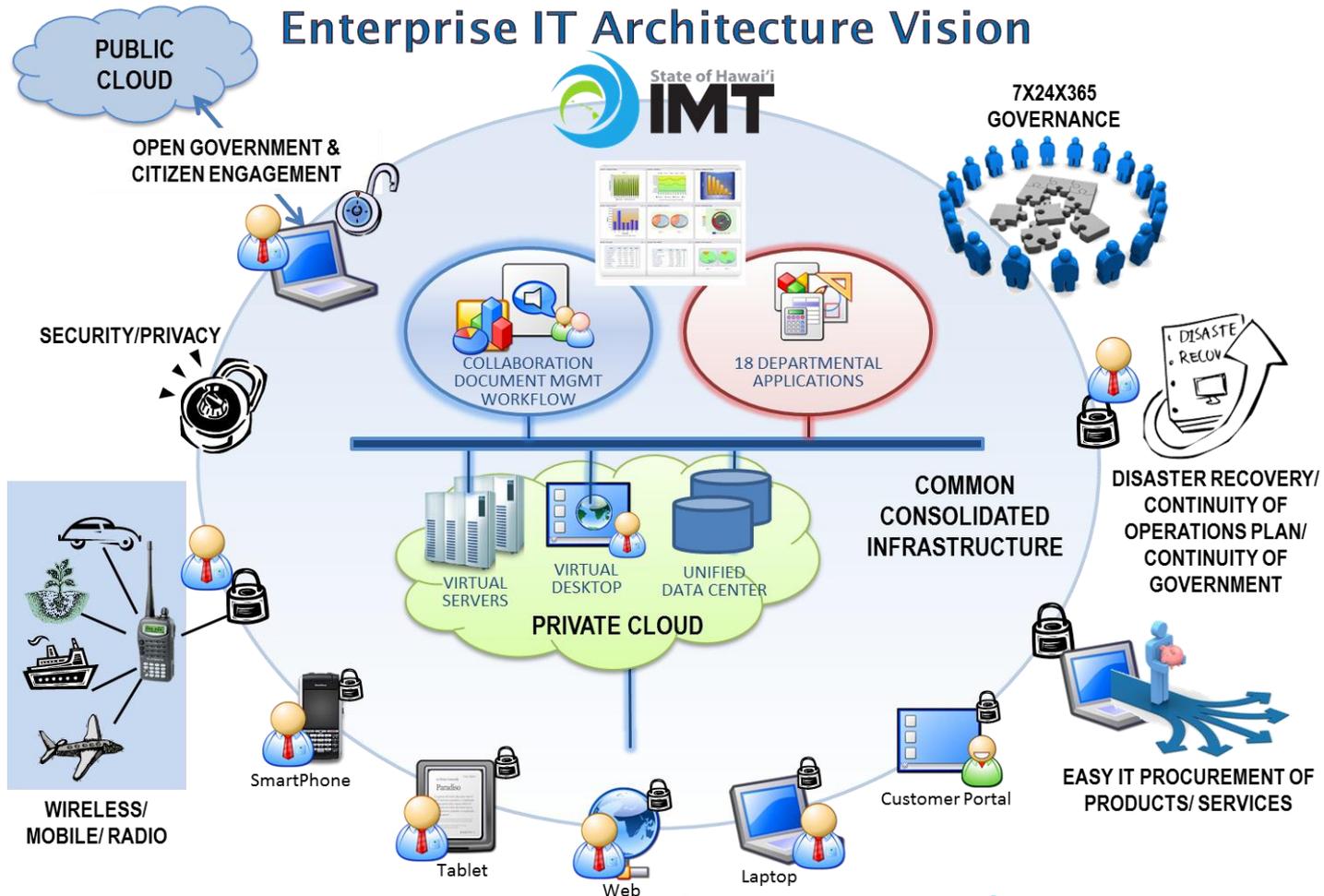
How are state government agencies impacted by the information Age and Economy?



Challenge: How do we institutionalize information and knowledge practices where “geo-enabled” information and knowledge is integrated into Systems/Apps, widely shared, available in a Timely, Secure Manner and used for decision-making?

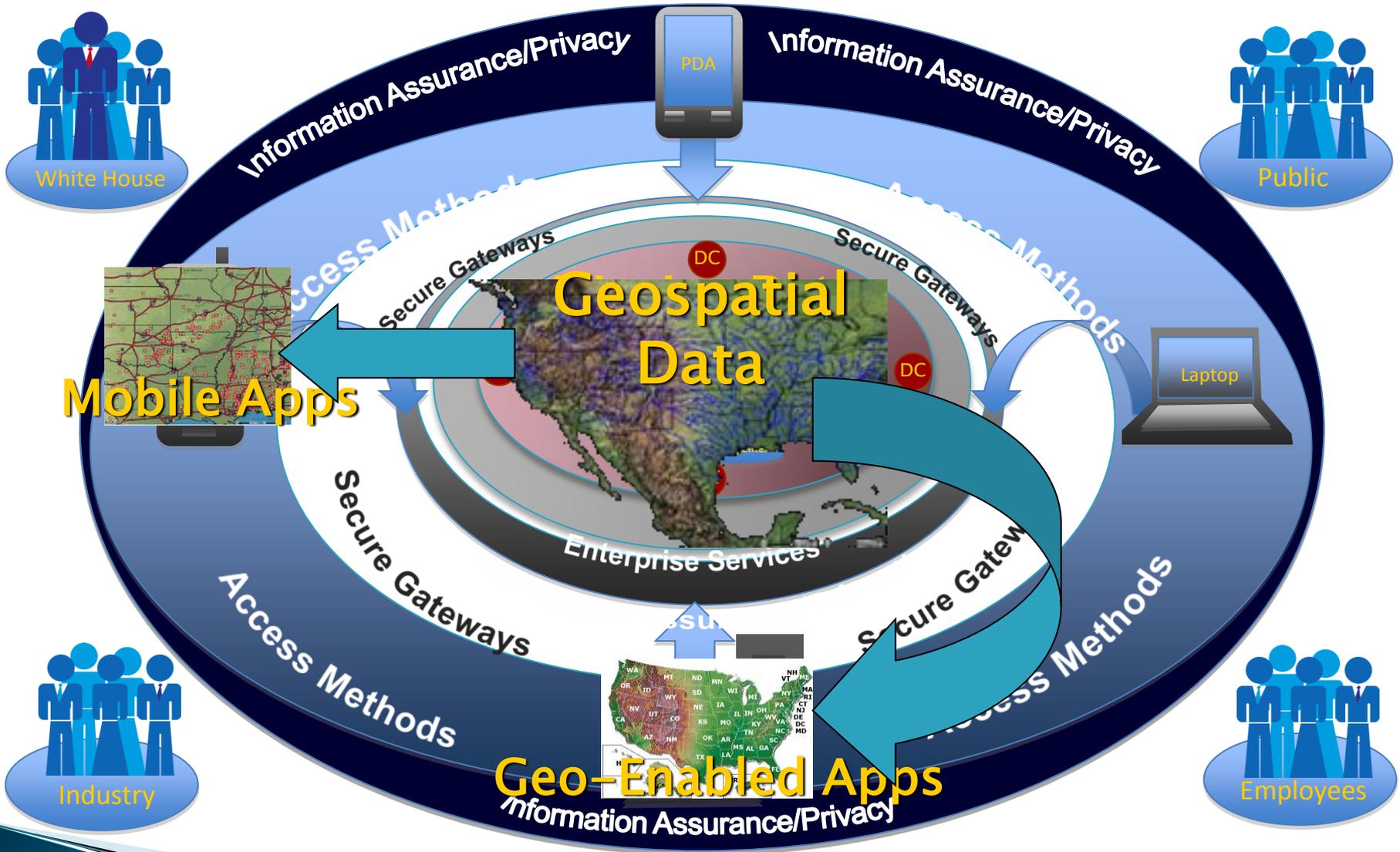
Vision

Preliminary Future Enterprise IT Architecture Vision



*Access to the right information –
anywhere, any time, any mission,
securely and reliably*

Notional Vision



Access to the right information for authorized users any time, anywhere, any mission, securely and reliably

IT Strategic Plan Drives Long-Term Vision

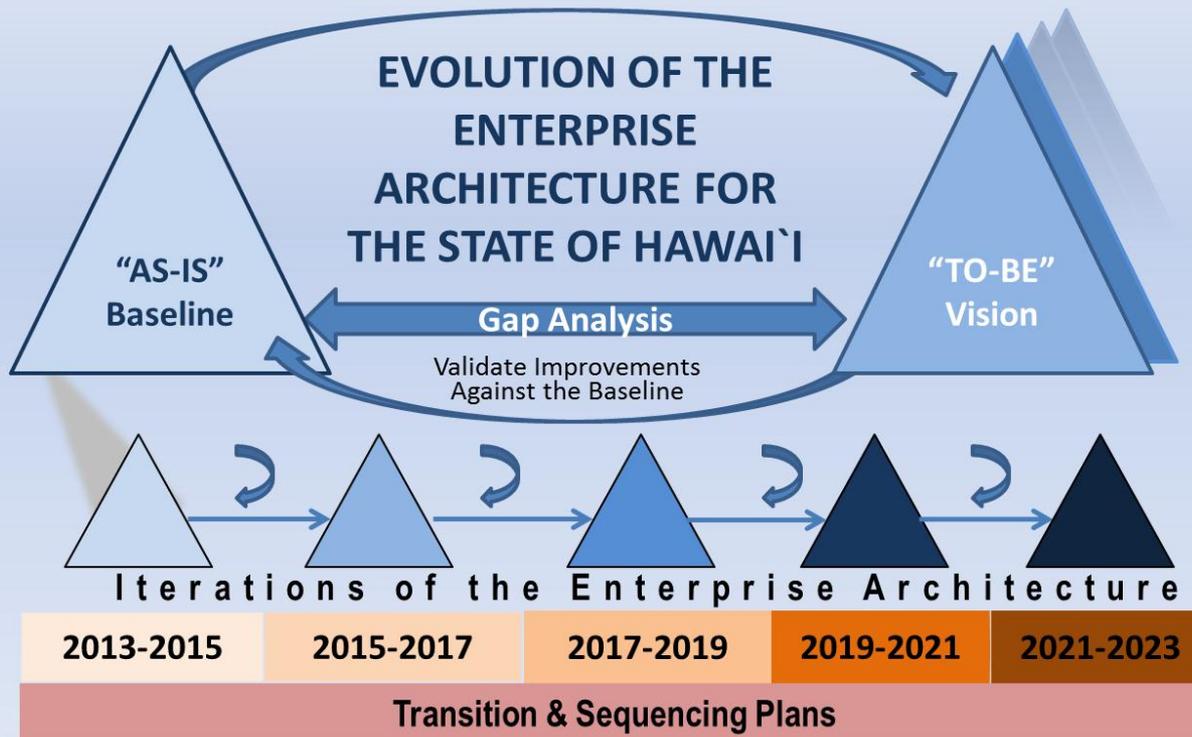
Governance View



Transformation View

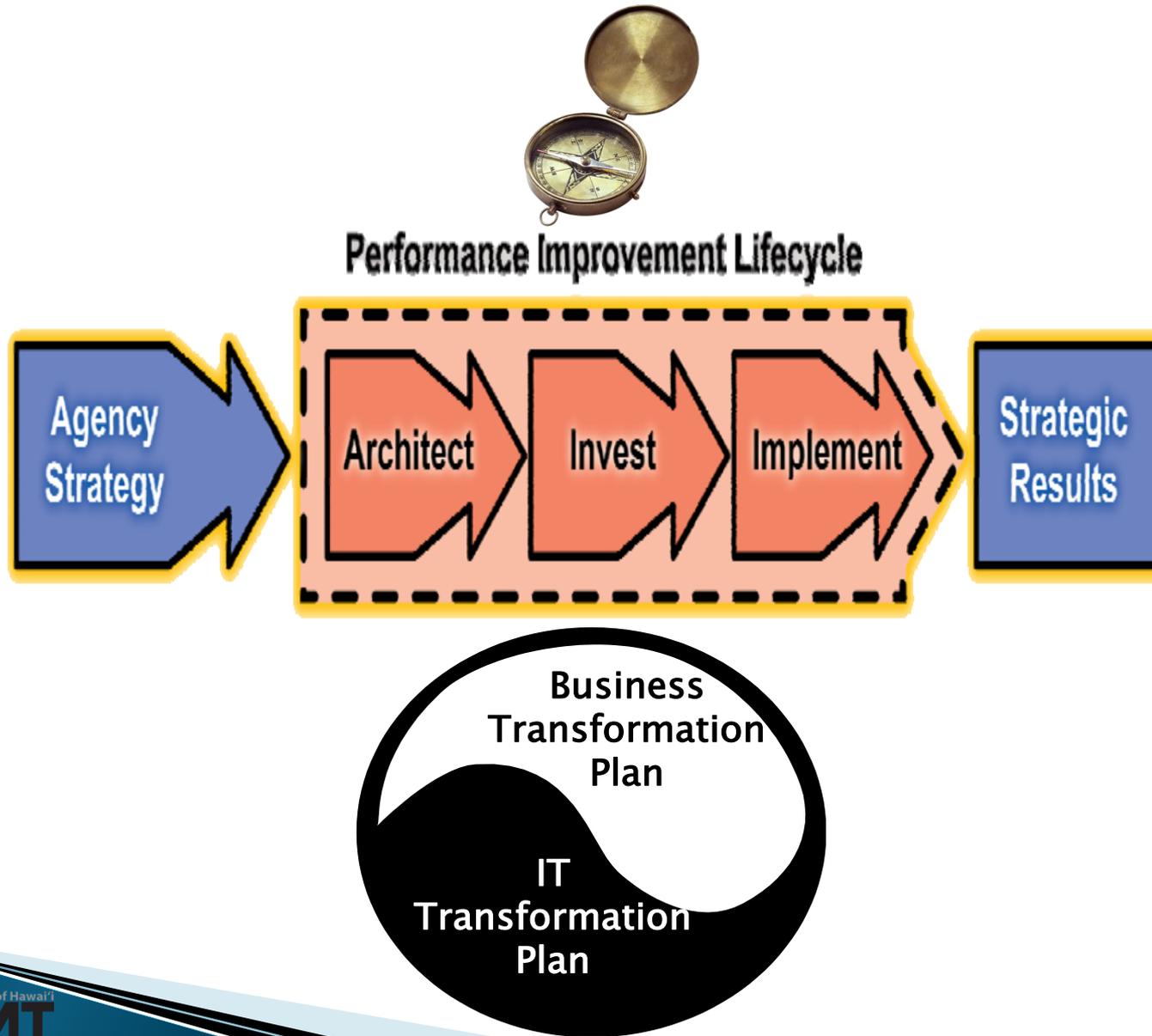


Departmental View



Deliver outstanding customer services and business value

The Transformation Plan





1 Management and Oversight (Governance)
State of Hawai`i Business and IT/IRM
Transformation Strategic Plan

2 Business Transformation Plan
IT Transformation Plan

Enterprise Architecture

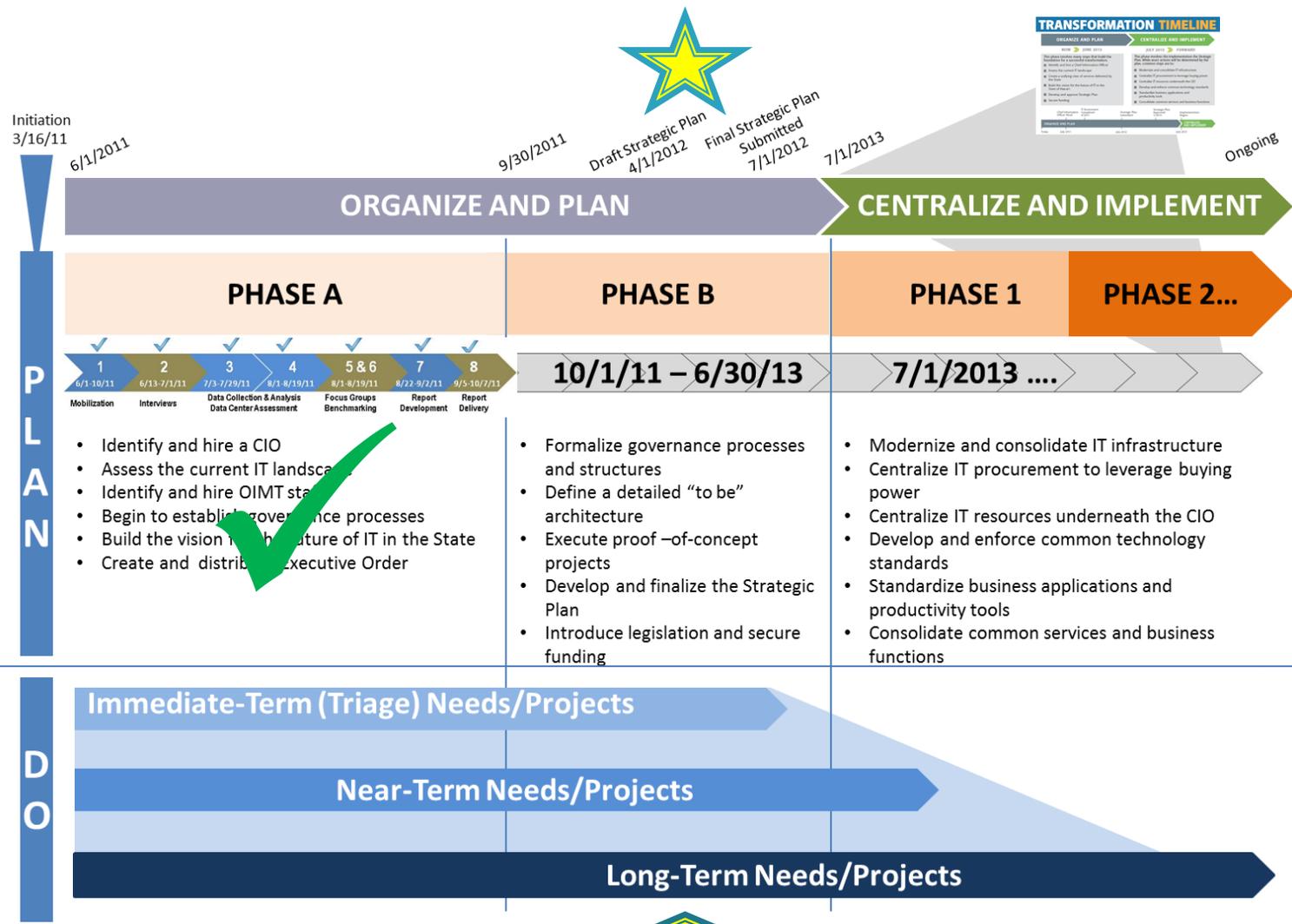
3 As Is T & S Plan To Be

4 Triage + Pilots Major Initiatives

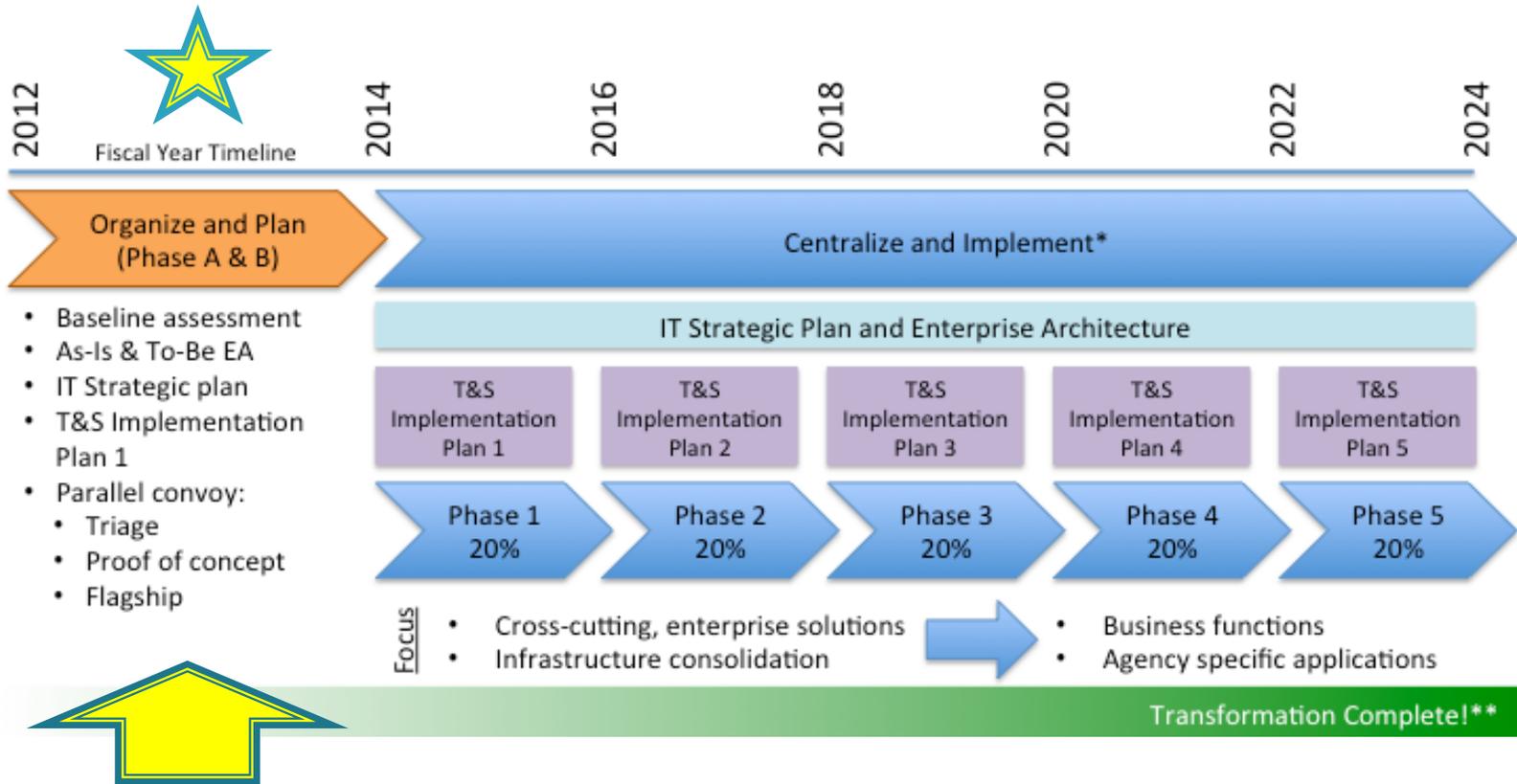
Business Process Reengineering



An Integrated, Multi-Year Transformation Plan...



The Transformation Plan



*Successful implementation of Centralize and Implement Phases dependent on funding

**State will pursue continuous improvement and innovation during and after the transformation

A Seven-Phase, Eleven-Year Plan with delivery along the way

The Open Government Initiative



Transparency promotes accountability

Participation allows people to contribute ideas/expertise; government benefits from broad knowledge sharing

Collaboration encourages cooperation within government and with industry



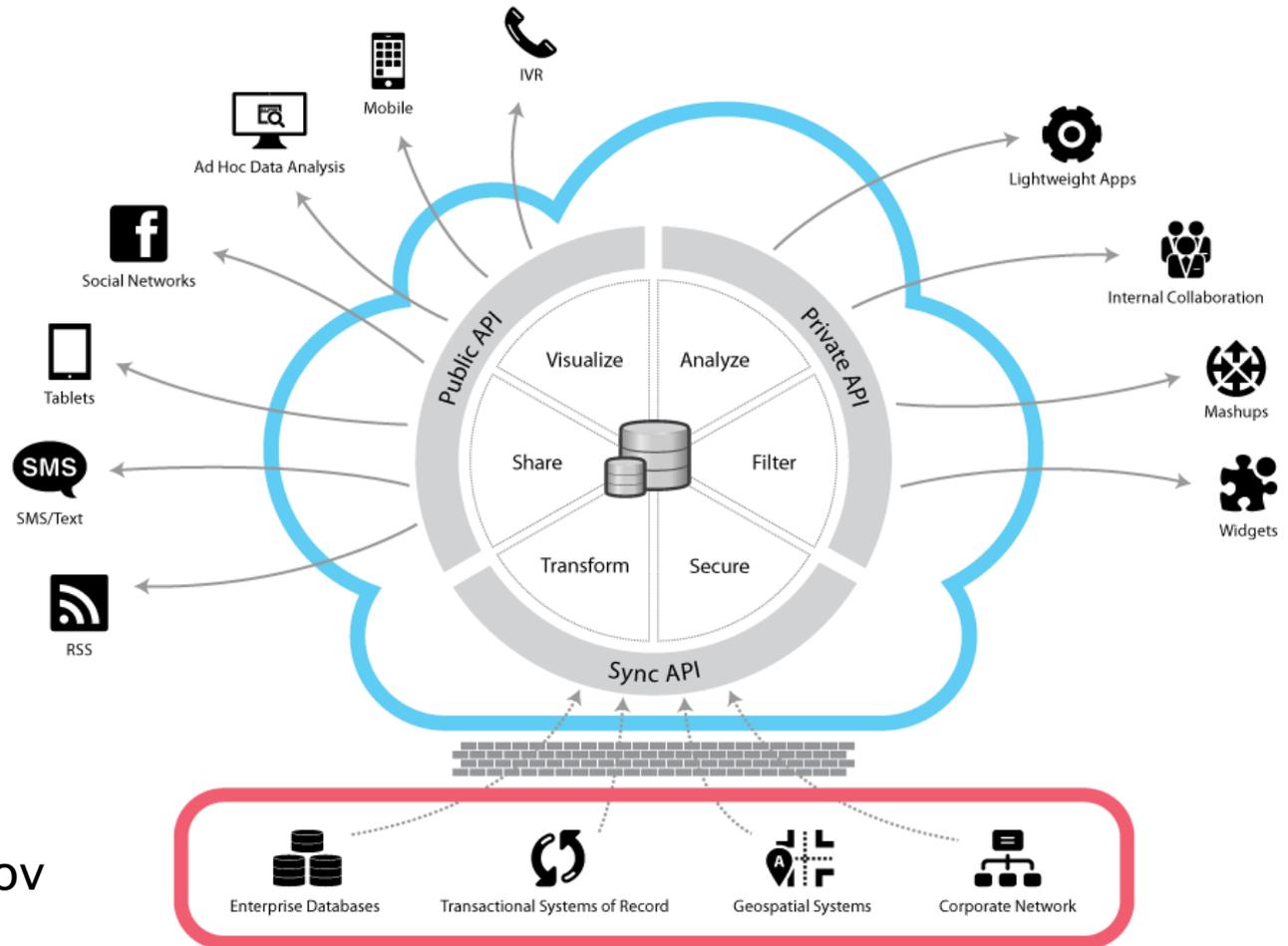
An Innovation Agenda* defines the building blocks of innovation



- Open Government
- +
- Partnerships
 - Entrepreneurship
 - Prizes, Challenges, and Grants
 - Idea Generation
 - Innovative Science & Technology
 - Creative Funding Strategies
 - Promoting Competitive Markets

* *“A Strategy for American Innovation”, published Sept 2009*

Next Generation Data.gov: A Platform Designed for Data Access & Consumption



<http://www.data.gov>

 Socrata | The Open Data Company™

 **DATA.GOV**
EMPOWERING PEOPLE

Next Generation Data.gov: Contrasting Legacy Data vs. Open Data



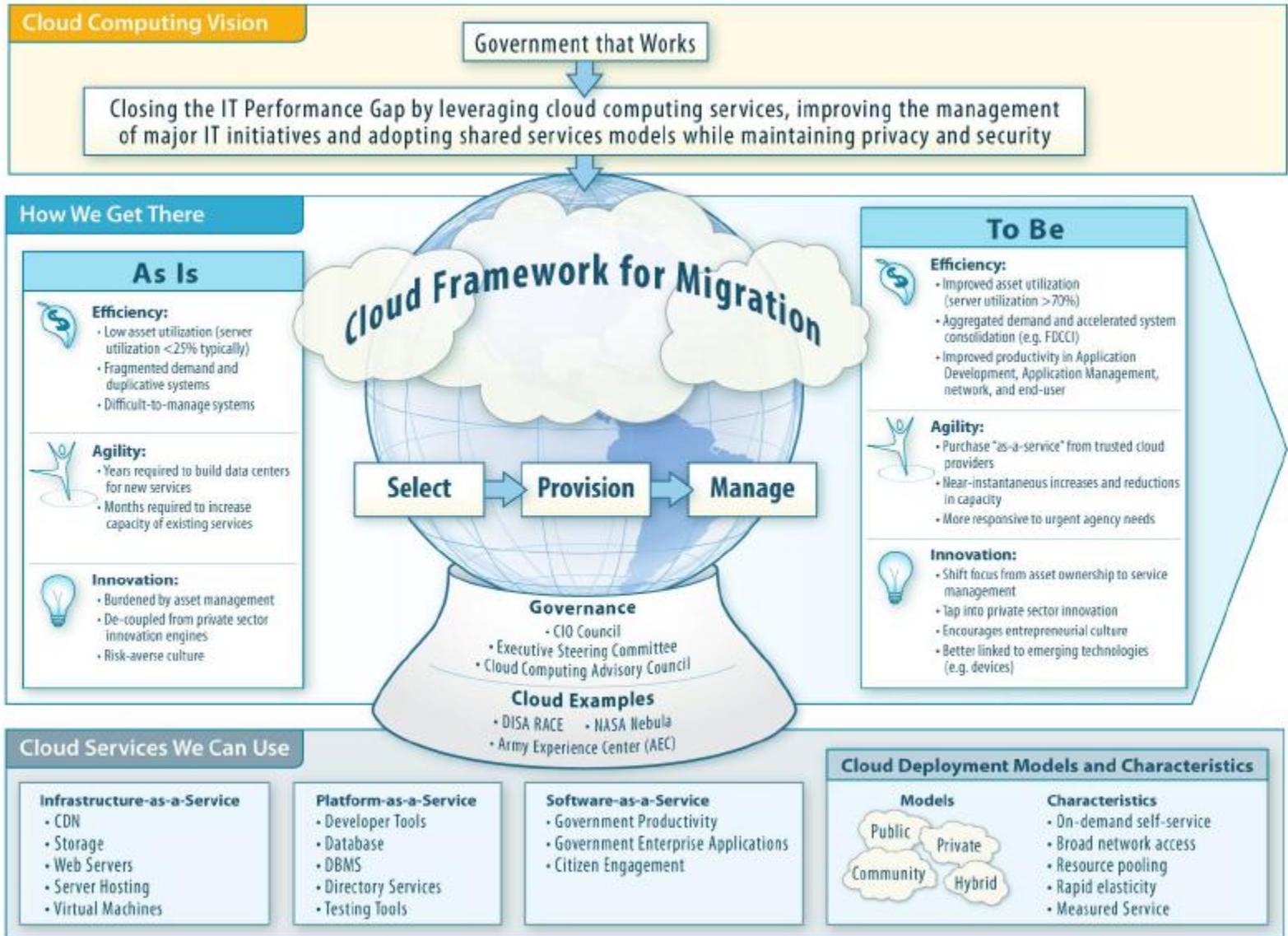
| Attribute/Characteristic | Legacy Data | Open Data |
|--------------------------------------|--|---|
| Core Use Cases | Data Collection, Process Automation, Enterprise Apps | Data Use and Reuse, Data Sharing and Collaboration, Ad Hoc Apps |
| Key Influences | Corporate Network Computing | Internet, Web 2.0 and the Social Web |
| Who Benefits? | Data Practitioners | The Rest of Us |
| Where's the Data? | On Premise | In the Cloud |
| Organizational Model | Business Process Optimized | Consumption Optimized |
| Designed for | The PC | The Web |
| Security and Permissions | Secure | Secure |
| Accessibility | Very Restricted | Very Accessible |
| Scalability | Employee Use | Widespread Use |
| Finding the Data | By Table Name | Searchable Catalog |
| Data Exploration and Analysis | Add-on PC/Desktop Tools | Native in Platform; In Web Browser |
| Charts and Maps | Add-on PC/Desktop Tools | Native in Platform; In Web Browser |
| Ad Hoc Access | None to Limited, guarded by a gatekeeper | Open and unfettered but authenticated |
| Developer Access | None to limited, rigid access via closed protocols | Open, standards-based, modern (RESTful) APIs |
| Reporting | Static | Dynamic |
| Data Usage Metrics | Ask the Gatekeeper | Open |



<http://www.data.gov>



Notional Cloud Computing View



Source: Federal Cloud Computing Initiative Update, Sonny Bhagowalia, Deputy Associate Administrator, GSA, June 22, 2011

Intranet Portal – Alpha

hawaii.gov Text size: Large / Normal / Small Wednesday, March 28, 2012 Log in Register

State of Hawaii
IMT Intranet Portal
Alpha Pilot

Search Site
 only in current section

Home Governance Working Groups Deliverables Reports Memos CEO Blog

Transformation Framework

The framework of the transformation includes: Governance, the Business and IT/IRM Transformation Strategic Plan, Enterprise Architecture and Projects (Triage, Pilot, and Major Initiatives).

• • • •

Aloha and Welcome to the Intranet Portal - ALPHA Pilot!

Transforming Government

The Office of Information Management and Technology under the leadership of State Chief Information Officer Sanjeev "Sonny" Bhagowala is developing the Business Transformation and Information Technology Strategic Plan, which will provide the road map for the technology modernization initiative.

Draft 1.0 of Business Transformation and Information Technology Strategic Plan Review

The staff of OIMT have been working diligently over the last few months to develop the Plan. We are pleased to inform you that Draft 1.0 of the Plan is ready for your review and feedback.

You'll find the following documents on this site available for viewing and/or download:

- [Governance](#)
- [Strategic Plan](#)
- [Enterprise Architecture](#)
- [Projects \(Coming Soon\)](#)

A Call to Action

Your suggestions, insight, and ideas will contribute to developing the Plan further in the coming months, as we will release a second draft in April and a third in June, with the final plan presented at the end of July. Follow these steps to comment on the plan:

1. **Register to log in and comments**
2. **Review the document(s)**
3. **Provide your feedback by Thursday, March 1, 2012**

Mahalo for your support and we look forward to your participation in transforming the State of Hawaii!

Governance

The governance plan provides the framework for the management and oversight of business processes and Information Technology (IT).

[Read more](#)

Strategic Transformation Plan

The Business Transformation and IT Strategic Plan provides the road map for the State's ten-year modernization initiative.

[Read more](#)

Enterprise Architecture

- Business Architecture (Business Processes, Organization, People)
- Application Architecture (Systems) | Data Architecture (Data, Information)
- Technology Architecture (Hardware, Software, Network)

The EA plan describes the current state, the future vision, and transition and sequence plan that bridges the gap over ten years.

[Read more](#)

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State GIS Program

Geographic Information System

Office of Planning, State of Hawaii



ABOUT THE PROGRAM

"Improving efficiency and effectiveness in government decision-making through education, facilitation, and coordination of GIS mapping technologies"

Hawaii's GIS Program is tasked with "...planning, coordinating, and maintaining a comprehensive, shared statewide planning, and geographic information system and associated geospatial database. The office shall be the lead agency responsible for coordinating the maintenance of the multi-agency, statewide planning and geographic information system and coordinating, collecting, integrating, and disseminating geospatial data sets that are used to support a variety of state agency applications and other spatial data analyses to enhance decision making. The office shall promote and encourage free and open data sharing among and between all government agencies." (§225M-2(b)(4), HRS)

In carrying out its statutory mandate as the lead agency for the statewide GIS program, the Office of Planning (OP) supports and coordinates GIS efforts across state agencies in addition to conducting spatial analysis and mapping for projects and initiatives in OP, the Department of Business, Economic, Development and Tourism (DBEDT), and other State agencies.

PROGRAM COMPONENTS

State GIS Database

OP is responsible for managing the State GIS database. The GIS Program encourages and facilitates sharing of data among agencies to minimize stove-piping of data, thus cutting costs and reducing duplication of effort. The State GIS database contains over 200 data layers, including contributions from federal, state, and county agencies.

State GIS Website

The State GIS website (<http://hawaii.gov/dbedt/gis>) contains a wealth of information for decision-makers, the public, and GIS experts alike. The site has nearly 200 downloadable GIS data layers for use in mapping and GIS analysis, as well as popular downloadable maps and easy-to-use web mapping services. The site is a well-known resource across Hawaii and even the nation. OP's GIS Program was the first government agency in Hawaii to offer public GIS data sets for download at no charge.

State GIS Coordination

In executing its statutory mandate as the lead agency for GIS in State government, OP supports and tracks GIS efforts across State agencies. As part of its new partnership with the State Chief Information Officer, OP looks forward to even more coordination and collaboration with this group. OP is a founding member and sits on the Board of Directors of the Hawaii Geographic Information Coordinating Council (HIGICC), a non-profit organization consisting of members of Hawaii's geospatial community. HIGICC's goal is to provide coordination of geospatial activities among GIS users from all sectors. OP is also a member of the National States Geographic Information Council (NSGIC), a national organization committed to efficient and effective government through the prudent adoption of geospatial information technologies.

GIS Mapping, Analysis, and Technical Support

The GIS Program conducts mapping and analysis for projects and initiatives in OP, DBEDT and other State agencies, as well as providing technical support and GIS guidance to all State GIS users.

PROGRAM FACTS

Number of Datasets/Layers on State Server
271

Number of Downloadable Layers on GIS Website
179

Number of Web Mapping Services Deployed
54

Number of Downloadable Maps on GIS Website
142

Sample Data, Maps, and Services at GIS Web Site
LSB Land Locator (Prototype Application), Enterprise Zone Locator, 2010 Census Thematic Maps, Census Interactive Online Maps, Hawaii Biomass Resources, Geothermal and Warm Ground Water, Rainfall and Rain Gauge Stations, Solar Irradiance and Radiation, Wind Energy Resource, Tsunami Evacuation Zones, Ocean Recreation Areas, Water Quality Classifications, Agricultural Lands of Importance to the State of Hawaii (ALISH)

Hawaii State GIS Partners

Federal: NOAA, USGS, US Census Bureau, DOI/NRCS, USFWS, USACE, NPS, NGS

State/County: OI/M, ICSD, DBEDT, DOA, AG, DOE, DOH, DLNR, DOT, OHA, HCDA, LUC, County of Hawaii, City and County of Honolulu, County of Kauai, County of Maui,

Others: Hawaii Geographic Information Coordinating Council, Pacific Disaster Center

Hawaii GIS Program Positions
3

* All figures as of January 20, 2012

KEY ACCOMPLISHMENTS

- With County, State and Federal partners, built the State GIS database, containing data developed and contributed by all levels of government.
- Maintains the State GIS database, adding, updating and organizing data and metadata.
- First government agency in Hawaii to create (non-FGDC) metadata for all public layers, listing data source, date, scale, attribute definitions, etc.
- First government agency in Hawaii to offer public geospatial data for download over the Internet at no cost.
- Participated in (and often helped to organize) several joint funding agreements with other County, State and Federal partners to acquire such critical data sets as TMK parcels, satellite imagery data, and digital topo maps.
- Maintains a State GIS User email list in order to disseminate information about new and updated data and upcoming events of interest to the State geospatial data user community.
- Maintains the State GIS Website, containing nearly 200 downloadable GIS layers, links to other geospatial data providers and links to various web mapping applications developed by the State GIS Program.

FUTURE INITIATIVES

Since establishment in 1988, the Hawaii State GIS Program in the Office of Planning has undertaken a number of initiatives in a variety of areas related to geospatial data and coordination. Currently, the program is involved in the following initiatives:

Conversion of Hawaii State GIS Database

Although the 200+ layers in the State GIS database have proven to be a great resource for State agencies and the public alike, they will be far more useful to State agencies after they are converted into one or more spatial geodatabases. This conversion will make querying and displaying the data much faster due to the more efficient storage and delivery of data in a relational database. As part of this project, the State GIS Program will convert the existing metadata into metadata meeting the FGDC standard.

Modernizing Hawaii State GIS

The GIS Program is working closely with the new State Chief Information Officer on modernizing the State GIS. A Strategic Planning effort for GIS has just begun, and will include plans to move the State GIS database off of the 7-year old server on which it resides, to current technology, possibly including high-end servers and cloud storage. In addition, the CIO and GIS Program are planning to deliver the data to users in more efficient and user-friendly ways, including web mapping and web feature services and dashboards.



State GIS Program
Geographic Information System
Office of Planning, State of Hawaii

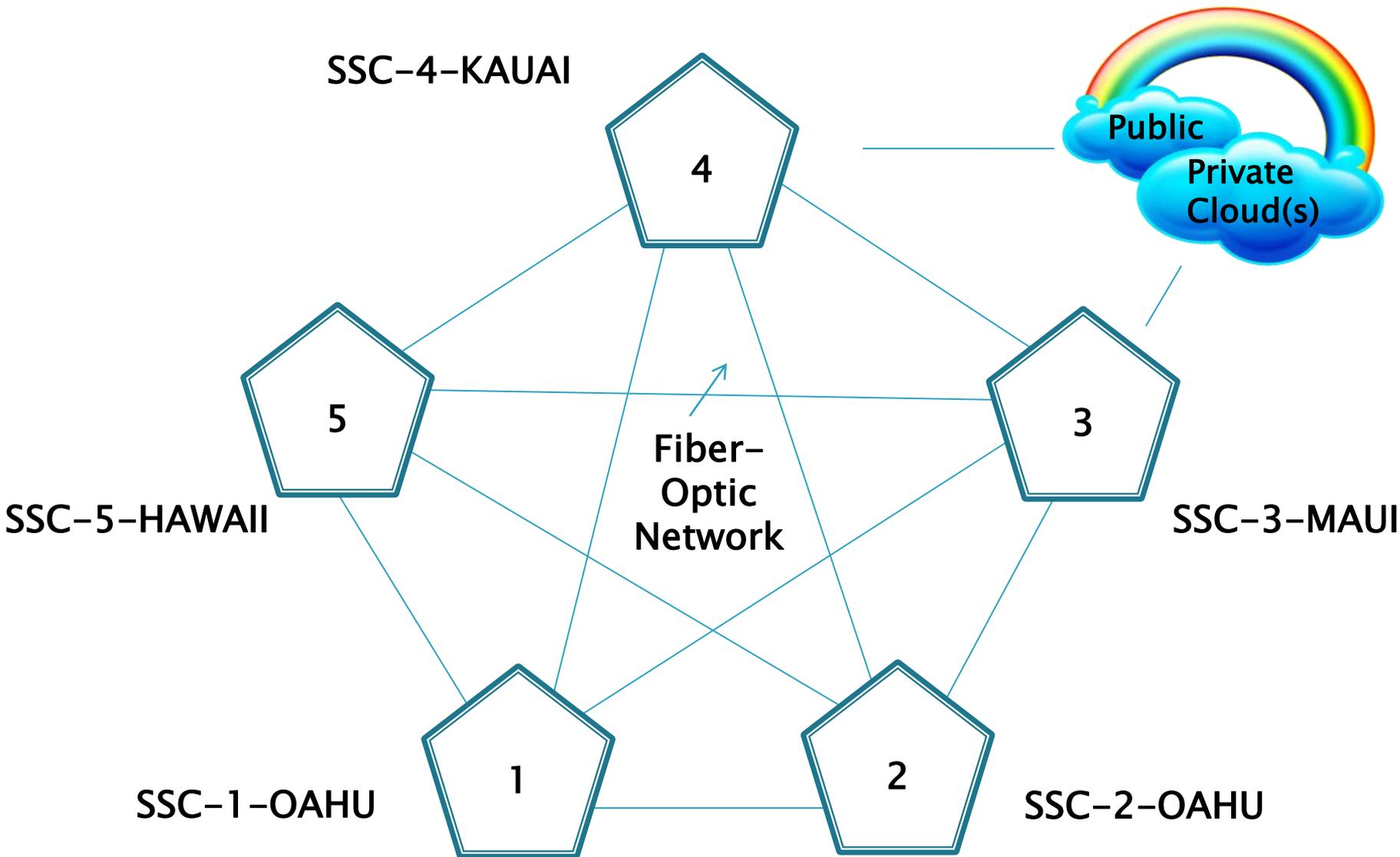
Office of Planning
State of Hawaii
P.O. Box 2359
Honolulu, Hawaii 96804-2359
(808) 587-2846

<http://hawaii.gov/dbedt/gis>
Find us on Facebook
State of Hawaii Office of Planning
twitter @HawaiiOfPlanning

02/06/2012

Jesse Souki/Director, Office of Planning, DBEDT
Joan Delos Santos, GIS Program Manager

Hawaii Shared Services Center Vision (Notional)

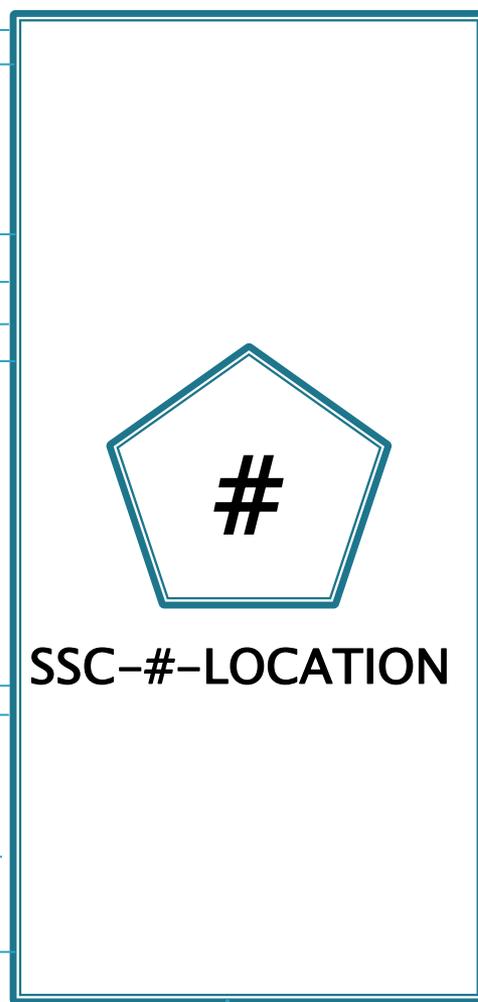
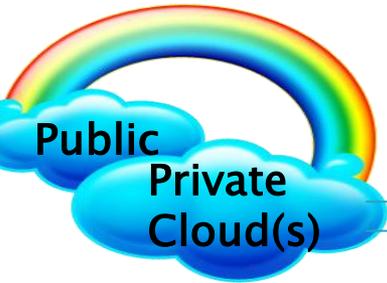
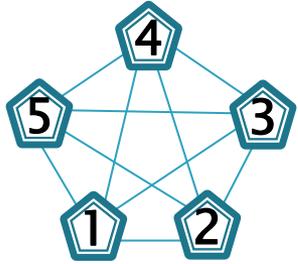


Shared Service Center (SSC) =
Data Center (DC) + Cyber Security Operations Center (CSOC) + Network
Operations Center (NOC) + Services Center (SC)

Typical Shared Services Center (Notional)

Internet

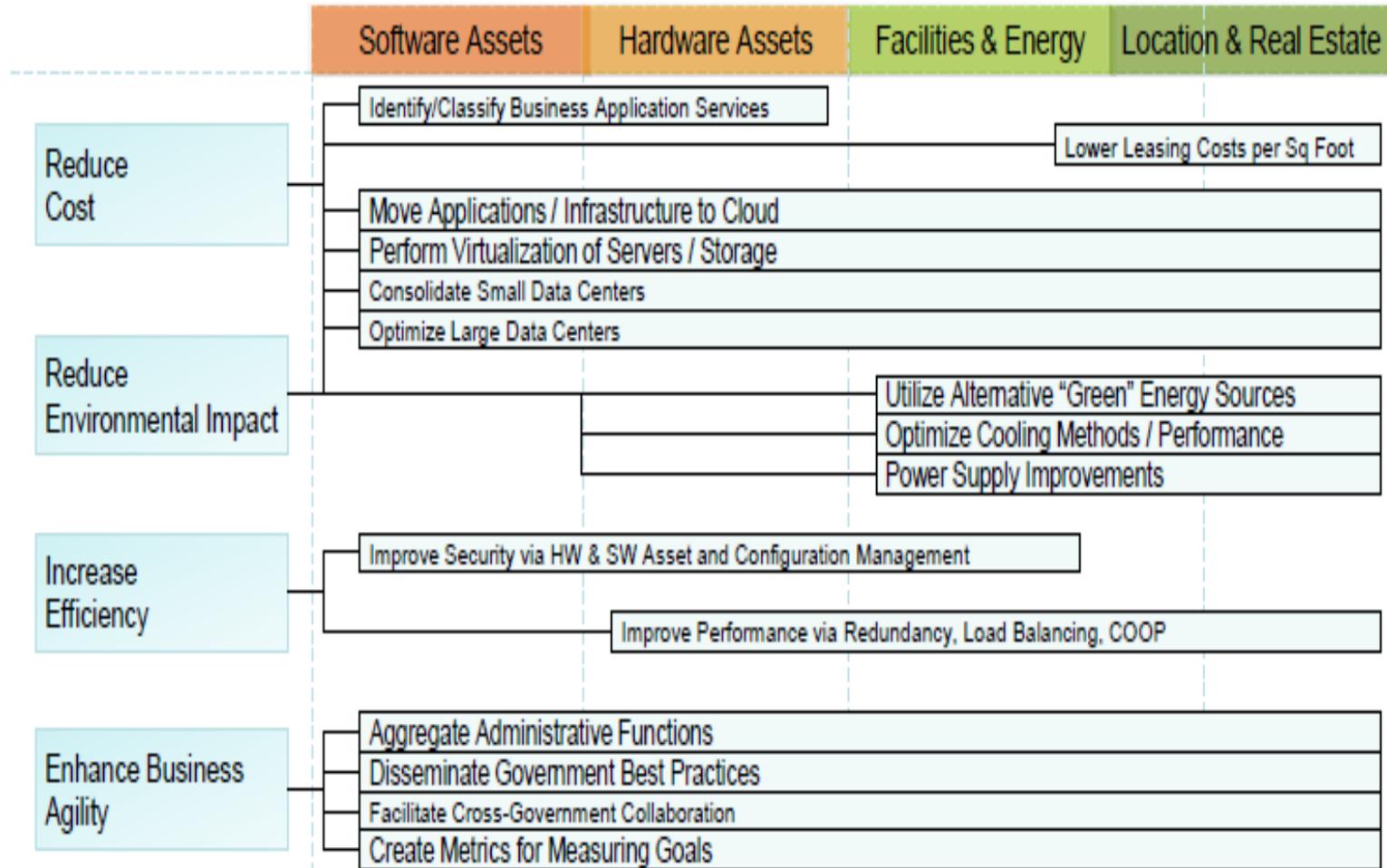
(Trusted Internet Connection/TIC)



- Voice Services
- Video Services
- Data Services
- Web Services
- Radio Services
- Mobile Services
- LAN Services
- Applications Services
- Business Services

Systems Management Services
Cyber-Security Services

Data Center Consolidation



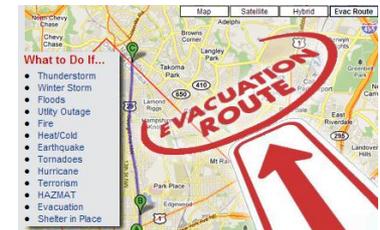
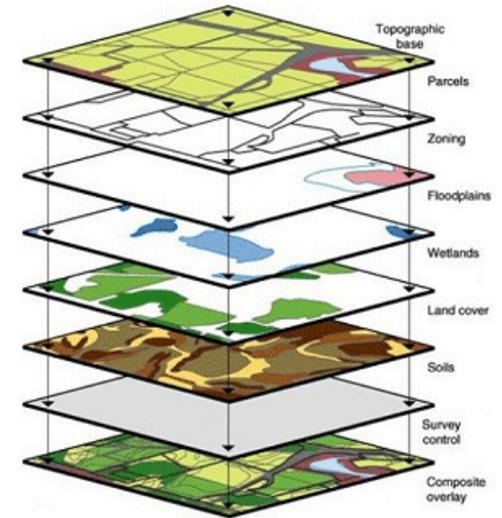
What's Next?



Mobile



**Cloud and Web
2.0/3.0**



**Next-Generation
GIS**

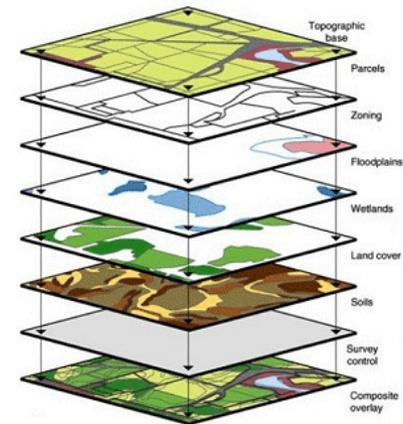
...and Much More...

What We Need From You

- ▶ We are collectively developing the State of Hawai`i Business and IT/IRM Transformation Strategic Plan

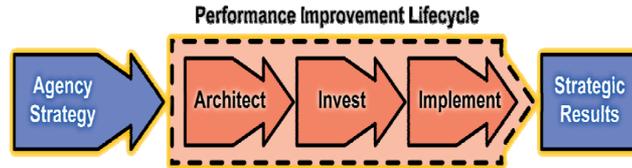


- ▶ In April, and June, 2012, we need your input in our future vision for the State, and what does the ideal Business and IT/IRM environment look like?



- ▶ Please stay tuned to <http://www.hawaii.gov/oimt> for details and announcements! We intend to Publish our Plan by July 31, 2012.

The Crossroads...



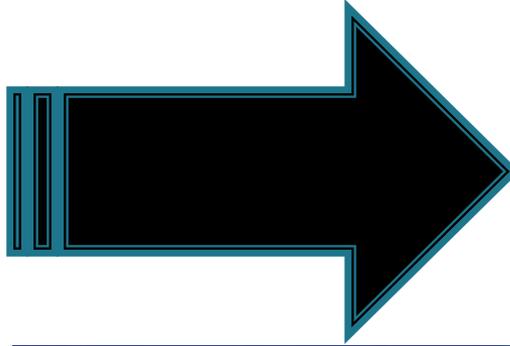
**Stove-Piped,
Sub-optimized,
IRM and IT
Environment
(Today)**



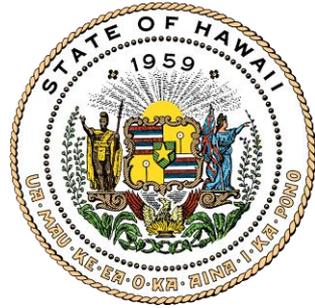
**Geo-enabled,
Integrated,
Mobile,
Transparent, Web-
Accessible, Open,
Standards-based,
Agile,
Reliable,
Available, Secure
Enterprise
Information and IT
Environment
(Goal)**

**We are at a Crossroad in History –
Let's Choose the Pathway to Success!**

“The Best Way to Predict the Future is to Invent it”* ...Let’s Go!



***Source:**
Alan Kay, Stanford
Peter F. Drucker



State of Hawai'i
IMT



INNOVATION
SUCCESS
EVALUATION
DEVELOPMENT
GROWTH
SOLUTION
PROGRESS
MARKETING



Mahalo!

<http://www.hawaii.gov/oimt>